

Honey Bucket Cleaning and Truck Maintenance Supplies, Uses, Storage and Spill Procedures



Unit Storage

Clean and empty units are stored in blocks of units to maximize space and minimize chances of units being tipped over by the forces of nature.



Service trucks

All trucks will be empty of sewage when in the yard. They will be emptied prior to returning to the yard at approved wastewater treatment facilities.



Portable Toilet Deodorizer (PT50 and or Advantage)

Common name: Blue, Additive

Use: Biodegradable blue additive. One ounce is mixed with 5 gallons of water put in the tanks of restrooms on the customer's site. This is a fragrant liquid that slows down decomposition controlling odor.

Storage: On site kept in 55 gallon drums placed on secondary containment trays. (Far right in picture)



Storage on truck: Kept in a one gallon jug inside of a five gallon bucket for secondary containment.



Total approximate daily usage: 3 to 6 gallons

Fragrance Spray and Washdown

Common name: Washdown, all-purpose cleaner

Use: Biodegradable all-purpose cleaner. One ounce is mixed with 5 gallons of water for the purpose of disinfecting and cleaning the surfaces in the portable restroom. This is done on the customer's site.

Storage: On site kept in 15 gallon drums placed on secondary containment trays. (15 gallon container 3rd from right)



Storage on truck: Kept in a one gallon jug inside of a five gallon bucket for secondary containment.



Total approximate daily usage: 2 to 5 gallons

Alkaline Urinal Cleaner

Common name: Urinal cleaner

Use: Biodegradable urinal cleaner. Sprayed on surfaces of the urinal to clean and breakdown the urine salts. This is done on the customer's site.

Storage: On site kept in 55 gallon drums placed on secondary containment trays. (55 gallon container 2nd from right)



Storage on truck: Kept in a 32oz spray bottle inside of a five gallon bucket for secondary containment.



Total approximate daily usage: 1 to 3 gallons

Banish

Common name: Graffiti remover

Use: occasional removal of graffiti. Sprayed on surfaces with graffiti and whipped off with a sponge. This is done on the customer's site.

Storage: On site kept in 5 gallon container placed on secondary containment trays.



Storage on truck: Kept in a 32oz spray bottle inside of a five gallon bucket for secondary containment.



Total approximate daily usage: 1/4 to 1 gallon

Instant Hand Sanitizer

Common name: Hand sanitizer

Use: Upon request we will insert one bag of hand sanitizer into dispenser in portable restroom.

Storage: On site kept in boxes of 10 - 1000ml bags.



Storage on truck: One box kept in side storage box on truck.



Total approximate daily usage: 20 to 30 bags

Exodor Pink Lotion Soap

Common name: Pink Hand Soap

Use: For use in sinks or restrooms with sinks inside.

Storage: On site kept in boxes of 10 - 1000ml bags.



Storage on truck: One box kept in side storage box on truck.



Total approximate daily usage: 12 to 36 bags

Hi-lex Bleach

Common name: Bleach

Use: Used to remove blue additive stains. Used as a disinfectant and sanitizer for fresh water in sinks

Storage: on site one gallon jugs kept on secondary spill containment trays



Storage on truck: One gallon jug kept in side storage box on truck.



Total approximate daily usage: <1gallon

Truck Oil, Lubricants and Fluids

Common name: Motor oil, automatic transmission fluid, turbine oil, coolant and DEF fluid

Use: Used as needed to maintain all fluids at a safe operable range.

Storage: On site kept in 55 gallon drums placed on secondary containment trays.



Storage on truck: Extra oils and fluids not carried on truck.

Total approximate daily usage: As needed to maintain truck fluids in a safe operable range (less than 1 gallon/week).

NORTHWEST CASCADE, INC.

LIQUID SPILL HANDLING PROCEDURES

We take great measures to prevent spills of any kind. In the unlikely event there is a spill all of our employees are trained in the following procedures.

In the event of a spill:

1. Take every available measure to contain the spill (rags, hoses, coveralls, dirt, cat litter, etc.).
2. Utilize personal protective equipment as necessary.
3. Notify the office (your manager or dispatcher).
4. Notify the property owner or customer.
5. Vacuum up all spilled material.
6. Sweep or mop up, as needed any residual spill. Under no circumstances wash into storm systems or places that are not contained.
7. Record time, date and location of spill.
8. Obtain names, titles and phone numbers of all persons involved.
9. Properly dispose of waste.
10. In all cases, the above applies if a spill happens while we are on the site, regardless of whether the spill is from a tank on our truck or from a container.

**UNDER NO CIRCUMSTANCES WASH DOWN INTO CATCH BASIN OR OTHER
AREAS!**



PT50 SUPREME PORTABLE TOILET & HOLDING TANK DEODORIZER

SDS Number: WAL-301

Revision Date: 3/28/2018

Page 1 of 5

1 PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: PT50 SUPREME PORTABLE TOILET & HOLDING TANK DEODORIZER
Revision Date: 3/28/2018
Version: 2
SDS Number: WAL-301
Product Use: Preparation of deodorizing solution for portable toilets.

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)
Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 1 B
Health, Serious Eye Damage/Eye Irritation, 1
Health, Acute toxicity, 5 Dermal
Health, Respiratory or skin sensitization, 1 Skin

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H313 - May be harmful in contact with skin
H317 - May cause an allergic skin reaction



PT50 SUPREME PORTABLE TOILET & HOLDING TANK DEODORIZER

SDS Number: WAL-301

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GHS Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P273 - Avoid release to the environment.

P404 - Store in a closed container.

P102 - Keep out of reach of children.

P103 - Read label before use.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 - Immediately call a POISON CENTER or doctor/physician.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P314 - Get Medical advice/attention if you feel unwell.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system. Acute inhalation of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.
Skin Contact:	This product may cause irritation or burns to skin. May cause allergic skin reaction. Prolonged or repeated contact may worsen irritation. Product contains components that may be absorbed through the skin.
Eye Contact:	Contact can cause moderate to severe irritation and possible injury to the eyes. Permanent eye damage may occur.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
0	12-17%	Surfactant
52-51-7	5-7%	Bronopol
64-17-5	1%	Ethanol
0	20-25%	Surfactant
0	5-10%	Dye
0	12-17%	Fragrance Blend

Other components consisting of 30-40% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) component (s) are given on this SDS.

4 FIRST AID MEASURES

Inhalation:	Inhalation of vapors or mists of this product may be irritating to the respiratory system. Acute inhalation may effect the central nervous system, including headache, sleepiness, dizziness, slurred speech and blurred vision. If inhaled, immediately remove the affected person to fresh air. If symptoms persist contact physician.
Skin Contact:	May produce an allergic reaction in sensitive individuals. May cause severe irritation and possible skin burns. For skin contact, wash immediately with soap and water. Immediately take off all contaminated clothing. wash contaminated clothing before reuse. If irritation persist, get medical attention.



PT50 SUPREME PORTABLE TOILET & HOLDING TANK DEODORIZER

SDS Number: WAL-301

Revision Date: 3/28/2018

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- Eye Contact:** May cause redness and severe pain. May result in permanent damage. Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
- Ingestion:** Product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not induce vomiting. Rinse the mouth. Give one to two glasses of water to dilute contents of stomach. Consult a doctor immediately.

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FIRE FIGHTING MEASURES

- Flash Point:** >60 C
- Autoignition Temp:** >190 C

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ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.
- Environmental precautions:** Avoid release of product into sewers, surface water and/ or ground water. Large spills: contain with dike. Waste product should not be allowed to contaminate soil or water. Due to the products biocidal activity discharge may impair the biological system in sewage plants. Inform the official bodies if necessary.
- Methods for cleaning up:** Collect spilled material in container. Absorb residues in sand or other inert material. Dispose at an authorized waste collection point. Wash away remainder with plenty of water.
- Other information:** Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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HANDLING AND STORAGE

- Handling Precautions:** Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
Do not breathe vapor. Avoid contact with skin and eyes.
Do not mix with other chemicals.
- Storage Requirements:** Keep frost-free, in a cool, dry and well-ventilated area (<35 C). Keep away from oxidizing agents.
Keep only in the original container.

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment:**
- Eyes/Face:** Wear chemical goggles. Add face shield if splashing possible.
- Body protection:** Use of chemical resistant apron is recommended when discharging large quantities.
- Respiratory Protection:** If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate niosh approved respiratory protection must be provided.
- Hand Protection:** Use impervious gloves.

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PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Dark Blue



PT50 SUPREME PORTABLE TOILET & HOLDING TANK DEODORIZER

SDS Number: WAL-301

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Physical State:	Liquid	Odor:	Pungent fragrance
Odor Threshold:	No data	Solubility:	100%
Spec Grav./Density:	1.011-1.082	Freezing/Melting Pt.:	-15 C
Viscosity:	No data	Flash Point:	>65 C
Boiling Point:	No data	Vapor Density:	No data
Partition Coefficient:	91-97 C	VOC:	30%
Vapor Pressure:	No data	Bulk Density:	1g/ml
pH:	No data	Auto-Ignition Temp:	No data
Evap. Rate:	4-5	UFL/LFL:	No data
Decomp Temp:	No data		

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	Keep separated from incompatible materials. Avoid generating splashes or mists of this material.
Materials to Avoid:	May react with strong oxidizing agents and acids.
Hazardous Decomposition:	Not known

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute Toxicity:

Oral (LD 50): (LD50: 1029 mg/kg) Harmful if swallowed

Inhalation (LC 50): Not determined

Skin irritation: Causes severe skin burns

Eye irritation: Causes eye damage

Sensitation: Not determined

12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Components of this product are hazardous to aquatic life in high concentration.

Product is considered biodegradable according to OECD guidelines.

13 DISPOSAL CONSIDERATIONS

Dispose of waste material according to Local, State, and Federal regulations.

14 TRANSPORT INFORMATION



PT50 SUPREME PORTABLE TOILET & HOLDING TANK DEODORIZER

SDS Number: WAL-301

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Land transport ADR/RID: Not regulated**Sea transport IMDG/GGVSee:** Environmentally Hazardous Substance Liquid n.o.s, Class 9, PG III, UN 3782**Air Transport ICAO-TI and IATA-DGR:** Environmentally Hazardous Substance Liquid n.o.s, Class 9, PG III, UN 3782

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Surfactant (0) [12-17%]

Bronopol (52-51-7) [5-7%] SARA313, TSCA

Ethanol (64-17-5) [1%] MASS, OSHAWAC, PA, TSCA, TXAIR

Surfactant (0) [20-25%]

Dye (0) [5-10%]

Fragrance Blend (0) [12-17%]

Regulatory CODE Descriptions

SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

COMPONENT / (CAS/PERC) / CODES

*Bronopol (52517 5%) SARA313, TSCA

*Ethanol (64175 1%) MASS, OSHAWAC, PA, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act

SARA313 = SARA 313 Title III Toxic Chemicals

MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



FRAGRANCE SPRAY AND WASHDOWN

SDS Number: WAL-406

Revision Date: 2/19/2019

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1 PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: FRAGRANCE SPRAY AND WASHDOWN
Revision Date: 2/19/2019
Version: 2
SDS Number: WAL-406
Chemical Formula: WAL-406
Product Use: FRAGRANCE ENHANCED TOILET CLEANER

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)
Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1
Health, Skin corrosion/irritation, 2
Health, Respiratory or skin sensitization, 1 Skin
Health, Acute toxicity, 4 Oral

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H318 - Causes serious eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H302 - Harmful if swallowed

GHS Precautionary Statements:



FRAGRANCE SPRAY AND WASHDOWN

SDS Number: WAL-406

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P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 - Immediately call a POISON CENTER or doctor/physician.

P302+350 - IF ON SKIN: Gently wash with soap and water.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P314 - Get Medical advice/attention if you feel unwell.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P313 - Get medical advice/attention.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system. Acute inhalation of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.
Skin Contact:	This product may cause irritation to skin. Prolonged or repeated contact may worsen irritation. Product contains components that may be absorbed through the skin. May cause allergic skin reaction in some individuals.
Eye Contact:	Contact can cause moderate to severe irritation and possible injury to the eyes. Permanent eye damage may occur.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
64-17-5	5-9%	Ethanol
0	10-15%	Surfactant blend
0	5-10%	Fragrance Blend

4 FIRST AID MEASURES

Inhalation:	Inhalation of vapors or mists of this product may be irritating to the respiratory system. Acute inhalation may effect the central nervous system, including headache, sleepiness, dizziness, slurred speech and blurred vision. If inhaled, immediately remove the affected person to fresh air. If symptoms persist contact physician.
Skin Contact:	May produce an allergic reaction in sensitive individuals. May cause moderate irritation. For skin contact, wash immediately with soap and water. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.
Eye Contact:	May cause redness and severe pain. May result in permanent damage. Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
Ingestion:	Product may be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not induce vomiting. Rinse the mouth. Give one to two glasses of water to dilute contents of stomach. Consult a doctor immediately.

5 FIRE FIGHTING MEASURES

Flash Point:	>60 C
Autoignition Temp:	>190 C



FRAGRANCE SPRAY AND WASHDOWN

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6 ACCIDENTAL RELEASE MEASURES

- Personal precautions: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.
- Environmental precautions: Avoid release of product into sewers, surface water and/ or ground water. Large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.
- Methods for cleaning up: Collect spilled material in container. Absorb residues in sand or other inert material. Dispose at an authorized waste collection point. Wash away remainder with plenty of water.
- Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

7 HANDLING AND STORAGE

- Handling Precautions: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
Do not breathe vapor. Avoid contact with skin and eyes.
Do not mix with other chemicals.
- Storage Requirements: Keep frost-free, in a cool, dry and well-ventilated area (<35 C). Keep away from oxidizing agents.
Keep only in the original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment: Eyes/Face: Wear chemical goggles. Add face shield if splashing possible.
- Body protection: Use of chemical resistant apron is recommended when discharging large quantities.
- Respiratory Protection: If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate niosh approved respiratory protection must be provided.
- Hand Protection: Use impervious gloves.

9 PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|------------------------|----------------|-----------------------|-------------------|
| Appearance: | Various Colors | Odor: | Pungent fragrance |
| Physical State: | Liquid | Solubility: | 100% |
| Odor Threshold: | No data | Freezing/Melting Pt.: | -15 C |
| Spec Grav./Density: | 1.011-1.082 | Flash Point: | >65 C |
| Viscosity: | No data | Vapor Density: | No data |
| Boiling Point: | 91-97 C | VOC: | 5% |
| Partition Coefficient: | No data | Bulk Density: | 1g/ml |
| Vapor Pressure: | No data | Auto-Ignition Temp: | No data |
| pH: | No data | UFL/LFL: | No data |
| Evap. Rate: | 5-6 | | |
| Decomp Temp: | No data | | |

10 STABILITY AND REACTIVITY

- Chemical Stability: Stable under normal conditions
- Conditions to Avoid: Keep separated from incompatible materials. Avoid generating splashes or mists of this material.



FRAGRANCE SPRAY AND WASHDOWN

SDS Number: WAL-406

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Materials to Avoid: May react with strong oxidizing agents and acids.
Hazardous Decomposition: Not known

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute Toxicity:

Oral (LD 50): (LD50: 3178) May be harmful if swallowed

Inhalation (LC 50): Not determined

Skin irritation: Causes skin irritation

Eye irritation: Causes serious eye damage

Sensitization: May cause an allergic skin reaction

12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Components of this product are hazardous to aquatic life in high concentration.

Product is considered biodegradable according to OECD guidelines.

13 DISPOSAL CONSIDERATIONS

Dispose of waste material according to Local, State, and Federal regulations.

14 TRANSPORT INFORMATION

Land transport ADR/RID: Not regulated

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Ethanol (64-17-5) [5-9%] MASS, OSHAWAC, PA, TSCA, TXAIR

Surfactant blend (0) [20-25%]

Fragrance Blend (0) [5-10%]

Regulatory CODE Descriptions

MASS = MA Massachusetts Hazardous Substances List



FRAGRANCE SPRAY AND WASHDOWN

SDS Number: WAL-406

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OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



ALKALINE URINAL CLEANER

SDS Number: WAL-407

Revision Date: 5/8/2018

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1 PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: ALKALINE URINAL CLEANER
Revision Date: 5/8/2018
Version: 2
SDS Number: WAL-407
Chemical Formula: WAL-407
Product Use: URINAL CLEANER

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)
Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 1 B
Health, Serious Eye Damage/Eye Irritation, 1

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

GHS Precautionary Statements:

P402+404 - Store in a dry place. Store in a closed container.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P102 - Keep out of reach of children.
P103 - Read label before use.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



ALKALINE URINAL CLEANER

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P311 - Call a POISON CENTER or doctor/physician.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin Contact:	This product may cause severe irritation/or burns to skin. Prolonged or repeated contact may worsen irritation.
Eye Contact:	Contact can cause moderate to severe irritation and possible injury to the eyes. Permanent eye damage may occur.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
1310-73-2	5%	Sodium Hydroxide
0	5%	Surfactant
6834-92-0	5%	Sodium Metasilicate

Other components consisting of 70-85% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) component (s) are given on this SDS.

4 FIRST AID MEASURES

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If feel unwell contact poison center or doctor/physician.
Skin Contact:	IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water including hair and under fingernails. Wash contaminated clothing before reuse. If rash or irritation occurs contact doctor/physician.
Eye Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply any medicated agents except on the advice from a physician. Immediately call a poison center or doctor/physician.
Ingestion:	IF SWALLOWED: Rinse mouth with plenty of water. Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Flash Point:	>200 C
Flash Point Method:	Tag closed cup

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with



ALKALINE URINAL CLEANER

SDS Number: WAL-407

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spilled or released material.

Environmental precautions: Avoid release of product into sewers, surface water and/ or ground water. Large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.

Methods for cleaning up: Collect spilled material in container. Absorb residues in sand or other inert material. Dispose at an authorized waste collection point. Wash away remainder with plenty of water.

Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

7

HANDLING AND STORAGE

Handling Precautions: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
Do not breathe vapor. Avoid contact with skin and eyes.
Do not mix with other chemicals.

Storage Requirements: Keep frost-free, in a cool, dry and well-ventilated area (<35 C). Keep away from oxidizing agents.
Keep only in the original container.
Store locked up.

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Eyes/Face: Wear chemical goggles. Add face shield if splashing possible.
Body protection: Use of chemical resistant apron is recommended for discharge of this product.
Respiratory Protection: If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate NIOSH approved respiratory protection must be provided.

Hand Protection: Use impervious gloves.

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Various Colors	Odor:	None
Physical State:	Liquid	Solubility:	100%
Odor Threshold:	No data	Freezing/Melting Pt.:	-15 C
Spec Grav./Density:	1.06	Flash Point:	>65 C
Viscosity:	No data	Vapor Density:	No data
Boiling Point:	91-97 C	Auto-Ignition Temp:	No data
Partition Coefficient:	No data	UFL/LFL:	No data
Vapor Pressure:	No data		
pH:	10-11		
Evap. Rate:	No data		
Decomp Temp:	No data		

10

STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Keep separated from incompatible materials. Avoid generating splashes or mists of this material.

Materials to Avoid: May react with strong oxidizing agents and acids.

Hazardous Decomposition: Not known

11

TOXICOLOGICAL INFORMATION



ALKALINE URINAL CLEANER

SDS Number: WAL-407

Revision Date: 5/8/2018

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Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"**Acute Toxicity:**

Oral (LD 50): (LD50: 5338)

Inhalation (LC 50): Not determined

Skin irritation: Causes severe skin burns

Eye irritation: Causes serious eye damage

12

ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

This product is not classified as environmentally hazardous.

Product is considered biodegradable according to OECD guidelines.

13

DISPOSAL CONSIDERATIONS

Dispose of waste material according to Local, State, and Federal regulations.

14

TRANSPORT INFORMATION**UN1760, Corrosive liquids, n.o.s., 8, PGII, (Sodium Hydroxide)****DOT: UN1760, Corrosive liquids, n.o.s. (Sodium hydroxide), 8, PG II****Sea transport IMDG/GGVSee: UN1760 Corrosive liquids, n.o.s. (Sodium hydroxide), 8, PGII****Air Transport ICAO-TI and IATA-DGR: UN1960 Corrosive liquids, n.o.s. (Sodium hydroxide), 8 PG II**

15

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

RQ(1000LBS), Sodium Hydroxide (1310-73-2) [5%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Surfactant (0) [5%]

Sodium Metasilicate (6834-92-0) [5%] TSCA



ALKALINE URINAL CLEANER

SDS Number: WAL-407

Revision Date: 5/8/2018

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Regulatory CODE Descriptions

RQ = Reportable Quantity
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

*Sodium hydroxide solution (1310732 5%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

16

OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



BANISH

SDS Number: WAL-404

Revision Date: 5/8/2018

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1 PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: BANISH
Revision Date: 5/8/2018
Version: 2
SDS Number: WAL-404
Chemical Formula: WAL-404
Product Use: Graffiti Remover, Cleaner & Protectant

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)
Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Physical, Flammable Liquids, 4

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H227 - Combustible liquid



BANISH

SDS Number: WAL-404

Revision Date: 5/8/2018

Page 2 of 5

GHS Precautionary Statements:

P402+404 - Store in a dry place. Store in a closed container.

P102 - Keep out of reach of children.

P103 - Read label before use.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P311 - Call a POISON CENTER or doctor/physician.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation:	Spray or Mist may cause respiratory irritation.
Skin Contact:	This product causes irritation to skin. Prolonged or repeated contact may worsen irritation.
Eye Contact:	Contact can cause moderate to severe irritation and possible injury to the eyes.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
100-51-6	30-40%	Benzyl alcohol
67-56-1	3-5%	Methanol
0	8-10%	Solvent
0	8-10%	Surfactant
0	2-4%	Fragrance

Other components consisting of 20-30% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) component (s) are given on this SDS.

4 FIRST AID MEASURES

Inhalation:	If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist.
Skin Contact:	Wash immediately with soap and water. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.
Eye Contact:	Remove contact lenses, if worn. Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
Ingestion:	Do not induce vomiting. If patient is fully conscious, rinse mouth with water and drink 1 glass of water. Obtain medical attention immediately.

5 FIRE FIGHTING MEASURES

Flash Point:	>60 C
Flash Point Method:	Open Cup
Dry powder, foam, carbon dioxide.	



BANISH

SDS Number: WAL-404

Revision Date: 5/8/2018

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6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.

Environmental precautions: Avoid release of product into sewers, surface water and/ or ground water. Large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.

Methods for cleaning up: Collect spilled material in container. Absorb residues in sand or other inert material. Dispose at an authorized waste collection point. Wash away remainder with plenty of water.

Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

7 HANDLING AND STORAGE

Handling Precautions: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
Do not breathe vapor. Avoid contact with skin and eyes.
Do not mix with other chemicals.

Storage Requirements: Keep frost-free, in a cool, dry and well-ventilated area. Keep away from oxidizing agents.
Keep only in the original container.
Keep out of reach of children.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Eyes/Face: Wear chemical goggles. Add face shield if splashing possible.
Body protection: Not normally needed. If splashing is expected wear chemical apron.
Respiratory Protection: If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate NIOSH approved respiratory protection must be provided.
Hand Protection: Use impervious gloves.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green tinted liquid	Odor:	NA
Physical State:	Liquid	Solubility:	100%
Odor Threshold:	No data	Percent Volatile:	80%
Spec Grav./Density:	.97	Freezing/Melting Pt.:	Not determined
Viscosity:	No data	Flash Point:	154 C
Boiling Point:	100 C	Vapor Density:	No data
Partition Coefficient:	No data	VOC:	50%
Vapor Pressure:	No data	Auto-Ignition Temp:	No data
pH:	7	UFL/LFL:	No data
Evap. Rate:	No data		
Decomp Temp:	No data		

10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Keep separated from incompatible materials. Avoid generating splashes or mists of this material.

Materials to Avoid: May react with strong oxidizing agents and reducing agents, acids, and alkalis.

Hazardous Decomposition: Not known

Hazardous Polymerization: Will not occur



BANISH

SDS Number: WAL-404

Revision Date: 5/8/2018

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11

TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute Toxicity:

Oral (LD 50): (LD50: 2187 mg/L)

Inhalation (LC 50): Not determined

Skin irritation: Causes skin irritation

Eye irritation: Causes severe eye irritation

12

ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

This product has components that are classified as environmentally hazardous.

Product is considered biodegradable according to OECD guidelines.

13

DISPOSAL CONSIDERATIONS

Dispose of waste material according to Local, State, and Federal regulations.

14

TRANSPORT INFORMATION

DOT: Not regulated as a hazardous material.

Sea transport IMDG/GGVSee: Not regulated as a hazardous material.



BANISH

SDS Number: WAL-404

Revision Date: 5/8/2018

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15

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Benzyl alcohol (100-51-6) [35-45%] HAP, MASS, PA, TSCA

RQ(5000LBS), Methanol (67-56-1) [5-7%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Solvent (0) [8-10%]

Surfactant (0) [8-10%]

Fragrance (0) [2-4%]

RQ(5000LBS), Acetone (67-64-1) [.5-1%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory CODE Descriptions

RQ = Reportable Quantity
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
NJHS = NJ Right-to-Know Hazardous Substances
OSHA = OSHA Workplace Air Contaminants
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



INSTANT HAND SANITIZER

SDS Number: WAL-412

Revision Date: 3/3/2019

Page 1 of 5

1 PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: INSTANT HAND SANITIZER
Revision Date: 3/3/2019
Version: 2
SDS Number: WAL-412
Product Code: HSBB12
Chemical Formula: WAL-412
Product Use: SKIN CARE

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)
Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Physical, Flammable Liquids, 3
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H226 - Flammable liquid and vapour
H320 - Causes eye irritation

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P103 - Read label before use.
P233 - Keep container tightly closed.



INSTANT HAND SANITIZER

SDS Number: WAL-412

Revision Date: 3/3/2019

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P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking

P305 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.

P370 - In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 - Store in a well ventilated place.

P235 - Keep cool.

P501 - Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation: Inhalation of vapors or mists of the product may be irritating. Get medical attention if irritation persists.

Eye Contact: Contact can cause moderate irritation.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
5265-71-8	65-70%	SDA 40-B Alcohol
102-71-6	0-5%	Triethanolamine 99% NF
57-55-6	0-5%	Propylene Glycol USP

4 FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms persist contact physician.

Skin Contact: If irritation persists, contact physician.

Eye Contact: Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. If irritation persists contact physician.

Ingestion: Contact poison Control Center immediately. Do not induce vomiting.

5 FIRE FIGHTING MEASURES

Flash Point: 70 F

Flash Point Method: PENSKE MARTEN CLOSED CUP

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: No special measures required.

Environmental precautions: Avoid contact of large amounts of spilled material runoff with soil and surface waterways.

Methods for cleaning up: Absorb with inert material. Use a water rinse for final clean up.

7 HANDLING AND STORAGE



INSTANT HAND SANITIZER

SDS Number: WAL-412

Revision Date: 3/3/2019

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Handling Precautions: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Storage Requirements: keep out of the reach of children. Keep container tightly closed. Store between 32-122 degrees F.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient to control workers exposure to airborne contamination.

Personal Protective Equipment:

Eyes: Eye protection should be used when splashing may occur.

Hands: No protective equipment is needed under normal use.

Skin: No protective equipment is needed under normal use.

Respiratory: No protective equipment is needed under normal use.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Gel	Odor:	Alcoholic odor
Physical State:	Liquid	Solubility:	No data
Odor Threshold:	No data	Freezing/Melting Pt.:	No data
Spec Grav./Density:	No data	Flash Point:	No data
Viscosity:	70,000 CPS @ 77F	Vapor Density:	No data
Boiling Point:	No data	Auto-Ignition Temp:	No data
Partition Coefficient:	No data	UFL/LFL:	No data
Vapor Pressure:	No data		
pH:	No data		
Evap. Rate:	7.5		
Decomp Temp:	No data		
	No data		

10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Conditions to Avoid: None known

Materials to Avoid: None known

Hazardous Decomposition: Carbon oxides

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute Toxicity:

Oral (LD 50): (LD50: >5000)

Inhalation (LC 50): Not determined

Skin irritation: Not determined

Eye irritation: Causes eye irritation



INSTANT HAND SANITIZER

SDS Number: WAL-412

Revision Date: 3/3/2019

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12

ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

The products ingredients are expected to be safe for the environment at the concentration predicted under normal use and accidental spills scenarios. Packaging components are compatible with the conventional solid waste management practices.

13

DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains, water courses or the soil. When possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

RCRA-Resource: D001 (Ignitable)

14

TRANSPORT INFORMATION

Land transport US DOT: Not regulated

Sea transport IMDG/GGVSee: UN1170 Ethanol Solution, Class 3, PGIII, LTD QTY

Air Transport ICAO-TI and IATA-DGR: ID8000 Consumer Commodity, Class 9,

15

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

SDA 40-B Alcohol (5265-71-8) [65-70%]

Triethanolamine 99% NF (102-71-6) [0-5%] HAP, MASS, PA, TSCA, TXAIR

Propylene Glycol USP (57-55-6) [0-5%] HAP, PA, TSCA

Regulatory CODE Descriptions

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level



INSTANT HAND SANITIZER

SDS Number: WAL-412

Revision Date: 3/3/2019

Page 5 of 5**16****OTHER INFORMATION**

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



GHS Safety Data Sheet

WALEX PRODUCTS COMPANY

EXODOR PINK LOTION SOAP

MSDS Number: WAL-415

Revision Date: 5/30/2015

Page 1 of 4

1

PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: EXODOR PINK LOTION SOAP
Revision Date: 5/30/2015
Version: 1
MSDS Number: WAL-415
Product Code: SOAPBB12
Chemical Formula: WAL-415
Product Use: SKIN CARE

CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-424-9300 (CHEMTREC USA)
Mfg Contact: +1-703-527-3887 (CHEMTREC INTERNATIONAL) (CALL COLLECT)

2

HAZARDS IDENTIFICATION

Inhalation: Inhalation of vapors or mists of the product may be irritating.

Eye Contact: Contact may cause moderate irritation.

Ingestion: This product may be harmful if swallowed.

GHS Classifications:
Health, Serious Eye Damage/Eye Irritation, 2 B

GHS Phrases:
H320 - Causes eye irritation

GHS Precautionary Statements:
P102 - Keep out of reach of children.
P103 - Read label before use.
P233 - Keep container tightly closed.
P305 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.



EXODOR PINK LOTION SOAP

MSDS Number: WAL-415

Revision Date: 5/30/2015

Page 2 of 4

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
151-21-3	20-30	Sodium Lauryl Sulfate
68187-32-6	15-30	Sodium Cocoyl Glutamate
56709-13-8	20-30	Polymethoxy Bicyclic Oxazoldine

4 FIRST AID MEASURES

Inhalation:	If feel unwell, immediately remove the affected person to fresh air. If symptoms persist contact physician.
Skin Contact:	If irritation persists, contact physician.
Eye Contact:	Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. If irritation persists contact physician.
Ingestion:	Contact poison Control Center immediately. Do not induce vomiting.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	No special measures required.
Environmental precautions:	Avoid contact of large amounts of spilled material runoff with soil and surface waterways.
Methods for cleaning up:	Absorb with inert material. Use a water rinse for final clean up.

7 HANDLING AND STORAGE

Handling Precautions:	Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
Storage Requirements:	Keep out of the reach of children. Keep container tightly closed. Store between 32-122 degrees F.



EXODOR PINK LOTION SOAP

MSDS Number: WAL-415

Revision Date: 5/30/2015

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8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient to control workers exposure to airborne contamination.

Personal Protective Equip: Eyes: Eye protection should be used when splashing may occur.

Hands: No protective equipment is needed under normal use.

Skin: No protective equipment is needed under normal use.

Respiratory: No protective equipment is needed under normal use.

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink liquid

Physical State: Liquid

pH: 6.3

Odor: Alcoholic odor

10

STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Conditions to Avoid: None known

Materials to Avoid: None known

Hazardous Decomposition: Carbon oxides

11

TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"

Acute Toxicity:

Oral (LD 50): (LD50: >5000)

Inhalation (LC 50): Not determined

Skin irritation: Not determined

Eye irritation: Causes eye irritation



EXODOR PINK LOTION SOAP

MSDS Number: WAL-415

Revision Date: 5/30/2015

Page 4 of 4

12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

The products ingredients are expected to be safe for the environment at the concentration predicted under normal use and accidental spills scenarios. Packaging components are compatible with the conventional solid waste management practices.

13 DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains, water courses or the soil. When possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

14 TRANSPORT INFORMATION

Land transport US DOT: Not regulated

Sea transport IMDG/GGVSee: Not regulated

Air Transport ICAO-TI and IATA-DGR: Not regulated

15 REGULATORY INFORMATION

16 OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Hi-lex Bleach Regular Scent 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hi-lex Bleach Regular Scent
Reference Number	H12-023 (EPA Reg. No. 70271-24)
Company	KIK Custom Products 33 MacIntosh Blvd. Concord, Ontario L4K 4L5 T: 905-660-0444
24 Hour Emergency Contact	1-800-255-3924
Prepared By	Product Development KIK Classic Division
Revised Date	01-31-12 Revision: New

SECTION 2: HAZARD IDENTIFICATION

General Advice: DANGER! CORROSIVE.

May cause severe burns or damage to eyes.

May cause severe skin burns or irritation.

Harmful if swallowed.

Vapor or mist may irritate.

If irritation occurs see a doctor immediately. Keep out of reach of children and pets.

Routes of Exposure: Eyes, Skin, Inhalation, Ingestion

Potential Health Effects:

Eyes: Vapor or mist can be irritation, causing redness. Concentrated vapor, mist or splashed liquid can cause severe irritation, burns or even permanent blindness.

Skin: Contact may produce severe irritation or corrosive skin damage, depending upon length of contact. Under normal consumer use conditions the likelihood of any adverse health effects are low.

Inhalation: Vapor or mist can cause irritation to nose, throat and upper respiratory tract.

Symptoms include: coughing, choking. Severe exposure can result in pulmonary edema and corrosion of tissues in the nose and throat.

Ingestion: Causes severe burns of the mouth, esophagus, and stomach, with consequent pain, nausea, vomiting, diarrhea, circulatory collapse.

Target organs: Eyes. Skin.

Chronic effects: Not known.

Hi-lex Bleach Regular Scent 1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name</i>	<i>Concentration %</i>	<i>CAS No.</i>	<i>Worker Exposure Limit</i>
Sodium Hypochlorite	6% - 9%	7681-52-9	5800 mg/kg / >10500
Sodium Hydroxide	<1.00%	7647-01-0	Not Established

SECTION 4: FIRST AID MEASURES

Eyes: Flush eyes immediately with lukewarm water for at least 20 minutes. Remove contact lenses after first 5 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. See doctor immediately.

Skin: Remove contaminated clothing. Immediately wash the skin with copious amount of lukewarm water for at least 20 - 30 minutes. See doctor immediately.

Inhalation: Move to fresh air immediately and restore breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. See doctor immediately.

Ingestion: DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL! Rinse mouth out with water. Drink 1 or 2 glasses of water, if swallowing is possible. Do not give anything by mouth to a convulsing or unconscious person. See a doctor immediately.

SECTION 5: FIRE FIGHTING MEASURES

This product is neither flammable nor explosive.

Suitable extinguishing media : Treat for surrounding material.

Protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

Hi-lex Bleach Regular Scent 1

SECTION 6: ACCIDENTAL RELEASE MEASURES

Always contained all type of spills. Be sure to wear protective equipment (see Section 8)

Leak and Spill Procedure: Rinse with water, mop up, dispose of in accordance with local, state/provincial and federal regulations.

Large Spills: Large spills should be contained, and if not recoverable, then diluted with water. Use a water rinse for final clean-up.

SECTION 7: HANDLING AND STORAGE

Handling: Use only as directed. Avoid any contact with eyes, skin and clothing. When using, do not eat or drink.

Storage: Store in a cool, dry and well-ventilated area. Always keep the container closed when not in use. KEEP OUT OF REACH OF CHILDREN AND PETS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Household Setting

Eyes Protection – No special requirements under normal use conditions.

Hand Protection – Use gloves for prolonged exposure.

Footwear – No special requirements under normal use conditions.

Respiratory protection – Not normally required.

Industrial Setting

Eyes Protection – Wear splash-resistant, full-face shield chemical goggles.

Hand Protection – Use suitable gloves.

Footwear – Impervious boots of chemically resistant material should be worn at all times.

Respiratory protection – If ventilation is not sufficient to prevent vapor build up, use appropriate NIOSH/MSHA respiratory protection.

Hi-lex Bleach Regular Scent 1

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Appearance	: Clear
Color	: Slightly yellow
Odor	: Bleach
pH	: 12.0 – 13.0
Specific Gravity	: 1.09 minimum (water = 1)
Viscosity	: Water thin
Water Solubility	: Complete
Boiling Point	: 212°F (100°C)
Melting Point	: no data available
Freezing point	: no data available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and storage conditions.

Conditions to avoid: Temperature above 40°C, sunlight and metals.

Materials to avoid: Acids, ammonia, urea, metals and oxidizers.

Reactivity: Releases Chlorine gas if mixed with ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: Will cause membrane irritation, pain and inflammation to digestive tract.

Acute dermal toxicity: Will cause moderate irritation to skin and severe irritation and pain to eyes.

Chronic toxicity : None known.

Carcinogenic Effects : Not considered to be carcinogenic by IARC, NTP and ACGIH

Mutagenic Effects : None Known

Reproductive Toxicity : None Known

Hi-lex Bleach Regular Scent 1

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects : Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Reclaim or dispose in accordance with federal, provincial and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT and Canadian TDG land Transportation

Class 8: Corrosive material

UN Number: 1791

Proper Shipping name: Sodium Hypochlorite Solution

Packaging group: III

Marine pollutant: No

IMDG Sea Transport

Class 8: Corrosive material

UN Number: 1791

Proper Shipping name: Sodium Hypochlorite Solution

Packaging group: III

Marine pollutant: No

SECTION 15: REGULATORY INFORMATION

TSCA/DSL Status: All components in this product are on the U.S. TSCA and Canadian DSL.

WHMIS (Canada): Class C: Oxidizing Material

Class D, Div. 2, Toxic Liquid, Skin Sensitizer

Hi-lex Bleach Regular Scent 1

SECTION 16: OTHER INFORMATION

HMIS Ratings

Health : 2
Flammability : 0
Reactivity : 2

NFPA Ratings

Health : 2
Flammability : 0
Reactivity : 2

Created By: Mitul Bhandari	Date: 1/31/2012
Approved By: Eden Mercado	Date: 1/31/2012

***** Preliminary MSDS. Subject to change *****

As the handling and use of this product are beyond our control, no warranty, expressed or implied is made concerning this product. The information contained here is offered only as a guide and is not intended to be all-inclusive in the manner and conditions of use and handling. The user assumes all risks of use or handling whether or not in accordance with any directions or suggestions of the manufacturer. Manufacturer shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our product.



ADVANTAGE PORTABLE TOILET & HOLDING TANK DEODORIZER

SDS Number: WAL-303

Revision Date: 5/7/2018

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1 PRODUCT AND COMPANY IDENTIFICATION**Manufacturer**

WALEX PRODUCTS
P.O. BOX 3785
WILMINGTON, NC 28406

Phone: 910-371-2242
Fax: 910-371-2094
Email: info@walex.com
Web: www.walex.com

Product Name: ADVANTAGE PORTABLE TOILET & HOLDING TANK DEODORIZER
Revision Date: 5/7/2018
Version: 2
SDS Number: WAL-303
Chemical Formula: WAL-303
Product Use: Preparation of deodorizing solution for portable toilets.

INFOTRAC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

Emergency # 1-800-535-5053 (INFOTRAC USA)
Mfg Contact: +1-352-323-3500 (INFOTRAC INTERNATIONAL) (CALL COLLECT)

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 1 B
Health, Serious Eye Damage/Eye Irritation, 1

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

GHS Precautionary Statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P273 - Avoid release to the environment.
P404 - Store in a closed container.



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P102 - Keep out of reach of children.

P103 - Read label before use.

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P305 - IF IN EYES: Immediately call a Poison Center or doctor/physician.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system. Acute inhalation of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.
Skin Contact:	This product may cause irritation or burns to skin. May cause allergic skin reaction. Prolonged or repeated contact may worsen irritation. Product contains components that may be absorbed through the skin.
Eye Contact:	Contact can cause moderate to severe irritation and possible injury to the eyes. Permanent eye damage may occur.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
0	10-15%	Surfactant
52-51-7	3-5%	Bronopol
64-17-5	1%	Ethanol
0	12-17%	Surfactant
0	5-10%	Dye
0	8-12%	Fragrance Blend

Other components consisting of 35-45% of the total composition are considered trade secrets and are being excluded from disclosure on this SDS. The hazards of this (these) component (s) are given on this SDS.

4 FIRST AID MEASURES

Inhalation:	Inhalation of vapors or mists of this product may be irritating to the respiratory system. Acute inhalation may effect the central nervous system, including headache, sleepiness, dizziness, slurred speech and blurred vision. If inhaled, immediately remove the affected person to fresh air. If symptoms persist contact physician.
Skin Contact:	May produce an allergic reaction in sensitive individuals. May cause severe irritation and possible skin burns. For skin contact, wash immediately with soap and water. Immediately take off all contaminated clothing. wash contaminated clothing before reuse. If irritation persist, get medical attention.
Eye Contact:	May cause redness and severe pain. May result in permanent damage. Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
Ingestion:	Product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not induce vomiting. Rinse the mouth. Give one to two glasses of water to dilute contents of stomach. Consult a doctor immediately.



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5 FIRE FIGHTING MEASURES

Flash Point: >60 C
Autoignition Temp: >190 C

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.

Environmental precautions: Avoid release of product into sewers, surface water and/ or ground water. Large spills: contain with dike. Waste product should not be allowed to contaminate soil or water. Due to the products biocidal activity discharge may impair the biological system in sewage plants. Inform the official bodies if necessary.

Methods for cleaning up: Collect spilled material in container. Absorb residues in sand or other inert material. Dispose at an authorized waste collection point. Wash away remainder with plenty of water.

Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

7 HANDLING AND STORAGE

Handling Precautions: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.
Do not breathe vapor. Avoid contact with skin and eyes.
Do not mix with other chemicals.

Storage Requirements: Keep frost-free, in a cool, dry and well-ventilated area (<35 C). Keep away from oxidizing agents.
Keep only in the original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Eyes/Face: Wear chemical goggles. Add face shield if splashing possible.

Body protection: Use of chemical resistant apron is recommended when discharging large quantities.

Respiratory Protection: If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate niosh approved respiratory protection must be provided.

Hand Protection: Use impervious gloves.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Blue	Odor:	Pungent fragrance
Physical State:	Liquid	Solubility:	100%
Odor Threshold:	No data	Freezing/Melting Pt.:	-15 C
Spec Grav./Density:	1.011-1.082	Flash Point:	>65 C
Viscosity:	No data	Vapor Density:	No data
Boiling Point:	91-97 C	VOC:	30%
Partition Coefficient:	No data	Bulk Density:	1g/ml
Vapor Pressure:	No data	Auto-Ignition Temp:	No data
pH:	4-5	UFL/LFL:	No data
Evap. Rate:	No data		
Decomp Temp:	No data		



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No data

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	Keep separated from incompatible materials. Avoid generating splashes or mists of this material.
Materials to Avoid:	May react with strong oxidizing agents and acids.
Hazardous Decomposition:	Not known

11 TOXICOLOGICAL INFORMATION**Acute Toxicity Estimates (ATEs) based on the individual Ingredient Toxicity Data utilizing the "Additivity Formula"****Acute Toxicity:**

Oral (LD 50): (LD50: 1723) Harmful if swallowed

Inhalation (LC 50): Not determined

Skin irritation: Causes severe skin burns

Eye irritation: Causes eye damage

Sensitation: Not determined

12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Components of this product are hazardous to aquatic life in high concentration.

Product is considered biodegradable according to OECD guidelines.

13 DISPOSAL CONSIDERATIONS**Dispose of waste material according to Local, State, and Federal regulations.****14 TRANSPORT INFORMATION****Land transport ADR/RID:** Not regulated**Sea transport IMDG/GGVSee:** Environmentally Hazardous Substance Liquid n.o.s, Class 9, PG III, UN 3782**Air Transport ICAO-TI and IATA-DGR:** Environmentally Hazardous Substance Liquid n.o.s, Class 9, PG III, UN 3782



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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Surfactant (0) [10-15%]

Bronopol (52-51-7) [3-5%] SARA313, TSCA

Ethanol (64-17-5) [1%] MASS, OSHAWAC, PA, TSCA, TXAIR

Surfactant (0) [12-17%]

Dye (0) [5-10%]

Fragrance Blend (0) [8-12%]

Regulatory CODE Descriptions

SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

COMPONENT / (CAS/PERC) / CODES

*Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424851 5%) TSCA

*Bronopol (52517 5%) SARA313, TSCA

*Ethanol (64175 1%) MASS, OSHAWAC, PA, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act

SARA313 = SARA 313 Title III Toxic Chemicals

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



NAPA Concentrate Antifreeze & Coolant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : NAPA Concentrate Antifreeze & Coolant

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Automotive Engine Antifreeze & Coolant

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
4065 Commercial Ave.
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302
STOT RE 2 H373
Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07



GHS08

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H302 - Harmful if swallowed
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe mist, spray, vapors
P264 - Wash affected areas thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear personal protective equipment as required
P301+P310 - If swallowed: Immediately call doctor/physician or poison center
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS No) 107-21-1	90 - 97	Acute Tox. 4 (Oral), H302
diethylene glycol	(CAS No) 111-46-6	< 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
water	(CAS No) 7732-18-5	< 4	Not classified
denatonium benzoate	(CAS No) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- First-aid measures after skin contact : Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label).
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention.
- First-aid measures after ingestion : Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes damage to organs (kidneys) oral.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

4.3. Indication of any immediate medical attention and special treatment needed

A more effective intravenous antidote for physician uses is 4-methylpyrazole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occurred.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water fog. Fine water spray. Alcohol-resistant foam. Foam. Carbon dioxide. Dry chemical powder. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream. May spread fire.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special protective equipment for fire fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Refer to section 8.2.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -18 °C (0 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty.

Incompatible products : Keep away from strong acids, strong bases and oxidizing agents.

Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylene glycol (107-21-1)		
USA ACGIH	ACGIH Ceiling (mg/m ³)	100.00 mg/m ³
USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract (URT) & Eye irritant

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : If exposed to levels above exposure limits wear appropriate respiratory protection.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Green

Odor : Mild

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Odor threshold	: No data available
pH 50% water solution	: 10.5 - 11
Relative evaporation rate (butylacetate=1)	: Nil
Freezing point	: -18 °C (0 °F)
Boiling point	: 158 °C (317 °F)
Flash point	: 116 °C (241 °F) [100% Ethylene Glycol] <i>ASTM D56</i>
Auto-ignition temperature	: 400 °C (752 °F) [100% Ethylene Glycol] <i>Literature</i>
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg @ 20 °C
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.12
Density	: 1.12 kg/l (9.3 lbs/gal)
Solubility	: Water: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: 3.2 - 15.3 vol %

9.2. Other information

VOC content	: 0.00 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Keep away from any flames or sparking source. Extremely high or low temperatures.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Fume. Alcohols. Aldehydes. Ethers.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed.
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ethylene glycol (107-21-1)	
LD50 oral rat	> 5,000 mg/kg (Rat)
ATE US (oral)	500 mg/kg bodyweight
diethylene glycol (111-46-6)	
LD50 oral rat	12,565 mg/kg (Rat)
LD50 dermal rabbit	11,890 mg/kg (Rabbit)
ATE US (oral)	500 mg/kg bodyweight
ATE US (dermal)	11,890 mg/kg bodyweight
denatonium benzoate (3734-33-6)	
LD50 oral rat	584 mg/kg (Rat)

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ethylene glycol (107-21-1)	
LD50 dermal rabbit	> 2,000 mg/kg (Rabbit)
ATE US (oral)	584 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

SECTION 12: Ecological information

12.1. Toxicity

ethylene glycol (107-21-1)	
LC50 fish 1	53,000 mg/l (96 h; Pimephales promelas; Static system)
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)
LC50 fish 2	40,761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)
Threshold limit algae 1	> 10,000 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	2,000 mg/l (192 h; Microcystis aeruginosa)
diethylene glycol (111-46-6)	
LC50 fish 1	> 5,000 ppm (24 h; Carassius auratus)
LC50 other aquatic organisms 1	1,174 mg/l (Xenopus laevis)
EC50 Daphnia 1	> 10,000 mg/l (24 h; Daphnia magna)
LC50 fish 2	61,072 ppm (168 h; Poecilia reticulata)
TLM fish 1	> 32,000 mg/l (96 h; Gambusia affinis)
TLM other aquatic organisms 1	> 1,000 ppm (96 h)
Threshold limit other aquatic organisms 1	1,174 mg/l (72 h; Xenopus laevis; Toxicity test)
Threshold limit other aquatic organisms 2	10,745 mg/l (16 h; Protozoa; Toxicity test)
Threshold limit algae 1	2,700 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	100 mg/l (Selenastrum capricornutum)
denatonium benzoate (3734-33-6)	
LC50 fish 1	> 1,000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	13 mg/l (48 h; Daphnia magna)

12.2. Persistence and degradability

ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance
BOD (% of ThOD)	0.36 % ThOD
diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance

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ethylene glycol (107-21-1)	
BOD (% of ThOD)	0.015 % ThOD
denatonium benzoate (3734-33-6)	
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.

12.3. Bioaccumulative potential

ethylene glycol (107-21-1)	
BCF fish 1	10 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp.; Chronic)
BCF other aquatic organisms 2	190 (24 h; Algae)
Log Pow	-1.34 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
diethylene glycol (111-46-6)	
Log Pow	-1.98
Bioaccumulative potential	Bioaccumulation: not applicable.
denatonium benzoate (3734-33-6)	
Log Pow	1.78 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

ethylene glycol (107-21-1)	
Surface tension	0.048 N/m (20 °C / 68 °F)
diethylene glycol (111-46-6)	
Surface tension	0.0485 N/m

12.5. Other adverse effects

Effect on ozone layer	: No known effect on the ozone layer
Effect on global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT	
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
UN-No.(DOT)	: 3082
DOT NA no.	: UN3082
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.
Department of Transportation (DOT) Hazard Classes	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)



DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241

NAPA Concentrate Antifreeze & Coolant

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DOT Quantity Limitations Passenger aircraft/rail : No limit
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit
CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information : Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).

ADR

No additional information available

Transport by sea

UN-No. (IMDG) : Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

Air transport

UN-No.(IATA) : Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

SECTION 15: Regulatory information

15.1. US Federal regulations

NAPA Concentrate Antifreeze & Coolant	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
ethylene glycol (107-21-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb(s)
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.
SARA Section 313 - Emission Reporting	Ethylene glycol is subject to Form R Reporting requirements.
diethylene glycol (111-46-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
denatonium benzoate (3734-33-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

NAPA Concentrate Antifreeze & Coolant	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

WHMIS Classification



Class D Division 2
Subdivision A - Very
toxic material
causing other toxic
effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2.2. National regulations

NAPA Concentrate Antifreeze & Coolant

DSL (Canada): The intentional ingredients of this product are listed
ECL (South Korea): The intentional ingredients of this product are listed.
EINECS (Europe): The intentional ingredients of this product are listed
ENCS (Japan): The intentional ingredients of this product are listed

15.3. US State regulations

ethylene glycol (107-21-1)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

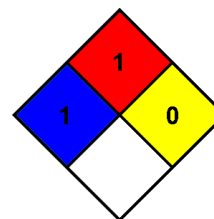
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 1 Slight Hazard

Physical

: 0 Minimal Hazard

Personal Protection

: B

SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SAFETY DATA SHEET

According to the Hazardous Products Regulations

Shell Rotella T3 15W-40

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2.0	2016-10-06	800001030772	Date of last issue: 18.05.2016
			Date of first issue: 16.02.2010

SECTION 1. IDENTIFICATION

Product name : Shell Rotella T3 15W-40

Product code : 001D5433

Manufacturer or supplier's details

Manufacturer/Supplier : **Shell Canada Products**
400 - 4th Avenue S.W
Calgary AB T2P 0J4
Canada

Telephone : (+1) 8006611600
Telefax : (+1) 4033848345

Emergency telephone number : CHEMTREC (24 hr): 1 (703) 527-3887 or 1 (800) 424-9300 (US)
CANUTEC (24 hr): (+1) 613-996-6666; Toll Free: 1-888-CAN-UTEC (226-8832)

Recommended use of the chemical and restrictions on use

Recommended use : Engine oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : PHYSICAL HAZARDS:
Not classified as a physical hazard under GHS criteria.
HEALTH HAZARDS:
Not classified as a health hazard under GHS criteria.
ENVIRONMENTAL HAZARDS:
Not classified as an environmental hazard under GHS criteria.

Precautionary statements : **Prevention:**
No precautionary phrases.
Response:
No precautionary phrases.
Storage:

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No precautionary phrases.

Disposal:

No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name : Shell Rotella T3 15W-40

Chemical nature : Highly refined mineral oils and additives.
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Polyolefin amide alkeneamine	84605-20-9	1 - 5
Zinc dialkyldithiophosphate	113706-15-3	1 - 2.4
Ethylenediamine	107-15-3	0.1 - 0.9
Alkylthiocarbamide metal complex	Not Assigned	0.1 - 0.9
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	0 - 90

SECTION 4. FIRST-AID MEASURES

General advice : Not expected to be a health hazard when used under normal conditions.

If inhaled : No treatment necessary under normal conditions of use.
If symptoms persist, obtain medical advice.

In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.
If persistent irritation occurs, obtain medical attention.

In case of eye contact : Flush eye with copious quantities of water.
If persistent irritation occurs, obtain medical attention.

If swallowed : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

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Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Protection of first-aiders	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
Notes to physician	: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	: Do not use water in a jet.
Specific hazards during fire-fighting	: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin and eyes.
Environmental precautions	: Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	: Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material.

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Reclaim liquid directly or in an absorbent.
Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional advice : For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.
For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

General Precautions : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.
Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Advice on safe handling : Avoid prolonged or repeated contact with skin.
Avoid inhaling vapour and/or mists.
When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Avoidance of contact : Strong oxidising agents.

Product Transfer : This material has the potential to be a static accumulator.
Proper grounding and bonding procedures should be used during all bulk transfer operations.

Storage

Other data : Keep container tightly closed and in a cool, well-ventilated place.
Use properly labeled and closable containers.

Store at ambient temperature.

Packaging material : Suitable material: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhalable fraction))	5 mg/m ³	US. ACGIH Threshold Limit Values
		TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany <http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

Engineering measures

: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:
Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

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Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Personal protective equipment

Respiratory protection

: No respiratory protection is ordinarily required under normal conditions of use.
In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.
Check with respiratory protective equipment suppliers.
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.
Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].

Hand protection
Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.

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Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

- Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
- Skin and body protection : Skin protection is not ordinarily required beyond standard work clothes.
It is good practice to wear chemical resistant gloves.
- Thermal hazards : Not applicable
- Protective measures : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Environmental exposure controls

- General advice : Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.
Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid at room temperature.
- Colour : amber
- Odour : Slight hydrocarbon
- Odour Threshold : Data not available
- pH : Not applicable
- pour point : -30 °C / -22 °F
Method: ASTM D97
- Initial boiling point and boiling range : > 280 °C / 536 °F
estimated value(s)
- Flash point : 227 °C / 441 °F
Method: ASTM D92 (COC)

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Evaporation rate	: Data not available
Flammability (solid, gas)	: Data not available
Upper explosion limit	: Typical 10 %(V)
Lower explosion limit	: Typical 1 %(V)
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)
Relative vapour density	: > 1 estimated value(s)
Relative density	: 0.879 (15 °C / 59 °F)
Density	: 879 kg/m3 (15.0 °C / 59.0 °F)Method: ASTM D4052
Solubility(ies)	
Water solubility	: negligible
Solubility in other solvents	: Data not available
Partition coefficient: n-octanol/water	: Pow: > 6 (based on information on similar products)
Auto-ignition temperature	: > 320 °C / 608 °F
Viscosity	
Viscosity, dynamic	: Data not available
Viscosity, kinematic	: 112 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445
	15 mm2/s (100 °C / 212 °F) Method: ASTM D445
Explosive properties	: Not classified
Oxidizing properties	: Data not available
Conductivity	: This material is not expected to be a static accumulator.
Decomposition temperature	: Data not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	: Stable.

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Possibility of hazardous reactions	: Reacts with strong oxidising agents.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidising agents.
Hazardous decomposition products	: Hazardous decomposition products are not expected to form during normal storage.

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	: Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
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Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:

Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity:
Acute inhalation toxicity	: Remarks: Not considered to be an inhalation hazard under normal conditions of use.
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating.
Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Components:

Zinc dialkyldithiophosphate:

Remarks: Based on available data, the classification criteria are not met.

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Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Components:

Ethylenediamine:

Remarks: May cause sensitisation of susceptible persons by skin contact or by inhalation of aerosol or dust.

Germ cell mutagenicity

Product:

Genotoxicity in vivo : Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies.

Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Reproductive toxicity

Product:

Effects on fertility :
Remarks: Not expected to impair fertility.
Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

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Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal.

ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment : Ecotoxicological data have not been determined specifically for this product.
Information given is based on a knowledge of the components and the ecotoxicology of similar products.
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s). (LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).

Ecotoxicity

Product:

Toxicity to fish (Acute toxicity) : Remarks: Expected to be practically non toxic:
LL/EL/IL50 > 100 mg/l

Toxicity to crustacean (Acute toxicity) : Remarks: Expected to be practically non toxic:
LL/EL/IL50 > 100 mg/l

Toxicity to algae/aquatic plants (Acute toxicity) : Remarks: Expected to be practically non toxic:
LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to crustacean (Chronic toxicity) : Remarks: Data not available

Toxicity to microorganisms (Acute toxicity) : Remarks: Data not available

Persistence and degradability

Product:

Biodegradability : Remarks: Expected to be not readily biodegradable.
Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environ-

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ment.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Contains components with the potential to bioaccumulate.

Partition coefficient: n-octanol/water : Pow: > 6
Remarks: (based on information on similar products)

Mobility in soil

Product:

Mobility : Remarks: Liquid under most environmental conditions.
If it enters soil, it will adsorb to soil particles and will not be mobile.

Remarks: Floats on water.

Other adverse effects

Product:

Additional ecological information : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities.
Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

Poorly soluble mixture.
May cause physical fouling of aquatic organisms.

Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.
Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local regulations may be more stringent than regional or national requirements and must be complied with.

Contaminated packaging : Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

SAFETY DATA SHEET

According to the Hazardous Products Regulations

Shell Rotella T3 15W-40

Version	Revision Date:	SDS Number:	Print Date: 2016-10-07
2.0	2016-10-06	800001030772	Date of last issue: 18.05.2016
			Date of first issue: 16.02.2010

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

TDG

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	: Not applicable
Ship type	: Not applicable
Product name	: Not applicable
Special precautions	: Not applicable

Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

Additional Information : MARPOL Annex 1 rules apply for bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

The components of this product are reported in the following inventories:

EINECS	: All components listed or polymer exempt.
TSCA	: All components listed.
DSL	: All components listed.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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According to the Hazardous Products Regulations

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AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Revision Date : 2016-10-06

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Shell Spirax S4 TXM

Version	Revision Date:	SDS Number:	Print Date: 05/01/2018
1.6	04/30/2018	800001005108	Date of last issue: 09/05/2016

SECTION 1. IDENTIFICATION

Product name : Shell Spirax S4 TXM

Product code : 001D8246

Manufacturer or supplier's details

Manufacturer/Supplier : **Shell Oil Products US**
PO Box 4427
Houston TX 77210-4427
USA

SDS Request : (+1) 877-276-7285
Customer Service :

Emergency telephone number

Spill Information : 877-504-9351
Health Information : 877-242-7400

Recommended use of the chemical and restrictions on use

Recommended use : Transmission oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : **PHYSICAL HAZARDS:**
Not classified as a physical hazard under GHS criteria.
HEALTH HAZARDS:
Not classified as a health hazard under GHS criteria.
ENVIRONMENTAL HAZARDS:
Not classified as an environmental hazard under GHS criteria.

Precautionary statements : **Prevention:**
No precautionary phrases.

Response:
No precautionary phrases.

Storage:
No precautionary phrases.

Disposal:

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Highly refined mineral oils and additives.
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Zinc dialkyldithiophosphate	zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate)	4259-15-8	1 - 2.4
Borated ester	2-hydroxy-4-tetradecyl-1,3,2-dioxaborolane	84819-41-0	0.1 - 0.9
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

SECTION 4. FIRST-AID MEASURES

If inhaled : No treatment necessary under normal conditions of use.
If symptoms persist, obtain medical advice.

In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.
If persistent irritation occurs, obtain medical attention.

In case of eye contact : Flush eye with copious quantities of water.
Remove contact lenses, if present and easy to do. Continue rinsing.
If persistent irritation occurs, obtain medical attention.

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-
- | | | |
|--|---|---|
| If swallowed | : | In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. |
| Most important symptoms and effects, both acute and delayed | : | Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. |
| Protection of first-aiders | : | When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings. |
| Indication of any immediate medical attention and special treatment needed | : | Treat symptomatically. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | | |
|---|---|--|
| Suitable extinguishing media | : | Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| Unsuitable extinguishing media | : | Do not use water in a jet. |
| Specific hazards during fire-fighting | : | Hazardous combustion products may include:
A complex mixture of airborne solid and liquid particulates and gases (smoke).
Carbon monoxide may be evolved if incomplete combustion occurs.
Unidentified organic and inorganic compounds. |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : | Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469). |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Avoid contact with skin and eyes. |
| Environmental precautions | : | Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. |

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Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional advice : For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

Technical measures : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Advice on safe handling : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Avoidance of contact : Strong oxidising agents.

Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.

Further information on storage stability : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.

Store at ambient temperature.

Packaging material : Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m ³	OSHA Z-1
Oil mist, mineral		TWA (Inhalable fraction)	5 mg/m ³	ACGIH

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany <http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

Engineering measures : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:
Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

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nance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

Respiratory protection : No respiratory protection is ordinarily required under normal conditions of use.
In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.
Check with respiratory protective equipment suppliers.
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.
Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].

Hand protection
Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Eye protection : If material is handled such that it could be splashed into eyes,

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protective eyewear is recommended.

Skin and body protection : Skin protection is not ordinarily required beyond standard work clothes.
It is good practice to wear chemical resistant gloves.

Protective measures : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Thermal hazards : Not applicable

Environmental exposure controls

General advice : Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.
Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid at room temperature.

Colour : amber

Odour : Slight hydrocarbon

Odour Threshold : Data not available

pH : Not applicable

pour point : -42 °C / -44 °F
Method: ISO 3016

Initial boiling point and boiling range : > 280 °C / 536 °F
estimated value(s)

Flash point : 220 °C / 428 °F
Method: ISO 2592

Evaporation rate : Data not available

Flammability (solid, gas) : Data not available

Upper explosion limit / upper flammability limit : Typical 10 %(V)

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Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Vapour pressure	:	< 0.5 Pa (20 °C / 68 °F) estimated value(s)
Relative vapour density	:	> 1 estimated value(s)
Relative density	:	0.882 (15 °C / 59 °F)
Density	:	882 kg/m ³ (15.0 °C / 59.0 °F) Method: ISO 12185
Solubility(ies)		
Water solubility	:	negligible
Solubility in other solvents	:	Data not available
Partition coefficient: n-octanol/water	:	log Pow: > 6 (based on information on similar products)
Auto-ignition temperature	:	> 320 °C / 608 °F
Decomposition temperature	:	Data not available
Viscosity		
Viscosity, dynamic	:	Data not available
Viscosity, kinematic	:	60 mm ² /s (40.0 °C / 104.0 °F) Method: ISO 3104 9.4 mm ² /s (100 °C / 212 °F) Method: ISO 3104
Explosive properties	:	Not classified
Oxidizing properties	:	Data not available
Conductivity	:	This material is not expected to be a static accumulator.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	:	Stable.
Possibility of hazardous reac-	:	Reacts with strong oxidising agents.

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tions

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidising agents.

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg
Remarks: Low toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Remarks: Low toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

Components:

Zinc dialkyldithiophosphate:

Remarks: Based on available data, the classification criteria are not met.

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Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser.
Based on available data, the classification criteria are not met.

Components:

Borated ester:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

Germ cell mutagenicity

Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

: Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

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Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Not an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment : Ecotoxicological data have not been determined specifically for this product.
Information given is based on a knowledge of the components and the ecotoxicology of similar products.
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s). (LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).

Ecotoxicity

Product:

Toxicity to fish (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.

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Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Data not available

Toxicity to microorganisms (Acute toxicity) : Remarks: Data not available

Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.
Major constituents are inherently biodegradable, but contains components that may persist in the environment.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Contains components with the potential to bioaccumulate.

Mobility in soil

Product:

Mobility : Remarks: Liquid under most environmental conditions.
If it enters soil, it will adsorb to soil particles and will not be mobile.

Remarks: Floats on water.

Other adverse effects

Product:

Additional ecological information : Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential.
Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Poorly soluble mixture.
Causes physical fouling of aquatic organisms.

Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Recover or recycle if possible.
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Do not dispose into the environment, in drains or in water courses

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.
Waste, spills or used product is dangerous waste.

Contaminated packaging : Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.
Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local legislation

Remarks : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Zinc dialkyldithiophosphate	4259-15-8	>= 1 - < 5 %
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Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Pennsylvania Right To Know

Zinc dialkyldithiophosphate	4259-15-8
Distillates (petroleum), hydrotreated light	64742-47-8

California Prop. 65

WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated light, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Zinc dialkyldithiophosphate	4259-15-8
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The components of this product are reported in the following inventories:

EINECS : All components listed or polymer exempt.

TSCA : All components listed.

DSL : All components listed.

SECTION 16. OTHER INFORMATION

Further information

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

Shell Spirax S4 TXM

Version	Revision Date:	SDS Number:	Print Date: 05/01/2018
1.6	04/30/2018	800001005108	Date of last issue: 09/05/2016

NFPA Rating (Health, Fire, Reactivity) 0, 1, 0

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
OSHA Z-1 / TWA : 8-hour time weighted average
Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS = Australian Inventory of Chemical Substances
ASTM = American Society for Testing and Materials
BEL = Biological exposure limits
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
CAS = Chemical Abstracts Service
CEFIC = European Chemical Industry Council
CLP = Classification Packaging and Labelling
COC = Cleveland Open-Cup
DIN = Deutsches Institut für Normung
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
DSL = Canada Domestic Substance List
EC = European Commission
EC50 = Effective Concentration fifty
ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals
ECHA = European Chemicals Agency
EINECS = The European Inventory of Existing Commercial Chemical Substances
EL50 = Effective Loading fifty
ENCS = Japanese Existing and New Chemical Substances Inventory
EWC = European Waste Code
GHS = Globally Harmonised System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Inhibitory Concentration fifty
IL50 = Inhibitory Level fifty
IMDG = International Maritime Dangerous Goods
INV = Chinese Chemicals Inventory
IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables
KECI = Korea Existing Chemicals Inventory
LC50 = Lethal Concentration fifty
LD50 = Lethal Dose fifty per cent.

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

Shell Spirax S4 TXM

Version	Revision Date:	SDS Number:	Print Date: 05/01/2018
1.6	04/30/2018	800001005108	Date of last issue: 09/05/2016

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading
LL50 = Lethal Loading fifty
MARPOL = International Convention for the Prevention of
Pollution From Ships
NOEC/NOEL = No Observed Effect Concentration / No Ob-
served Effect Level
OE_HP V = Occupational Exposure - High Production Volume
PBT = Persistent, Bioaccumulative and Toxic
PICCS = Philippine Inventory of Chemicals and Chemical
Substances
PNEC = Predicted No Effect Concentration
REACH = Registration Evaluation And Authorisation Of
Chemicals
RID = Regulations Relating to International Carriage of Dan-
gerous Goods by Rail
SKIN_DES = Skin Designation
STEL = Short term exposure limit
TRA = Targeted Risk Assessment
TSCA = US Toxic Substances Control Act
TWA = Time-Weighted Average
vPvB = very Persistent and very Bioaccumulative

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

Revision Date : 04/30/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

Safety Data Sheet

According to OSHA HCS 2012 (29 CFR 1910.1200)



SECTION 1: Identification

Product Identifier **Turbine Oil**
Other means of identification Phillips 66 Turbine Oil 32
Phillips 66 Turbine Oil 46
Phillips 66 Turbine Oil 68
Phillips 66 Turbine Oil 100
SDS Number **LBPH778982**
Relevant identified uses Turbine Oil
Uses advised against All others
24 Hour Emergency Phone Number CHEMTREC 1-800-424-9300
CHEMTREC Mexico 01-800-681-9531

Manufacturer/Supplier Phillips 66 Lubricants P.O. Box 4428 Houston, TX 77210	SDS Information Phone: 800-762-0942 Email: SDS@P66.com URL: www.Phillips66.com	Customer Service U.S.: 800-368-7128 or International: 1-832-765-2500 Technical Information 1-877-445-9198
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SECTION 2: Hazard identification

Classified Hazards **Hazards Not Otherwise Classified (HNOC)**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200. PHNOC: None known

HHNOC: None known

Label Elements

No classified hazards

SECTION 3: Composition/information on ingredients

Chemical Name	CASRN	Concentration ¹
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	>95

¹ All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

Eye Contact: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Skin Contact: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

Inhalation: First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

Ingestion: First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed: Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Prolonged or repeated contact may dry skin and cause irritation.

Notes to Physician: Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

SECTION 5: Firefighting measures

NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



0 (Minimal)
1 (Slight)
2 (Moderate)
3 (Serious)
4 (Severe)

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Specific hazards arising from the chemical

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

Special protective actions for firefighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

Methods and material for containment and cleaning up: Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or

disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

SECTION 7: Handling and storage

Precautions for safe handling: Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

Conditions for safe storage: Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

SECTION 8: Exposure controls/personal protection

Chemical Name	ACGIH	OSHA	Phillips 66
Distillates, petroleum, hydrotreated heavy paraffinic	---	---	TWA: 5 mg/m ³ STEL: 10 mg/m ³ as Oil Mist, if Generated

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Eye/Face Protection: The use of eye/face protection is not normally required; however, good industrial hygiene practice suggests the use of eye protection that meets or exceeds ANSI Z.87.1 whenever working with chemicals.

Skin/Hand Protection: The use of skin protection is not normally required; however, good industrial hygiene practice suggests the use of gloves or other appropriate skin protection whenever working with chemicals. Suggested protective materials: Nitrile

Respiratory Protection: Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

SECTION 9: Physical and chemical properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Light amber, Transparent
Physical Form: Liquid
Odor: Petroleum
Odor Threshold: No data
pH: Not applicable

Flash Point: > 428 °F / > 220 °C
Test Method: Cleveland Open Cup (COC), ASTM D92
Initial Boiling Point/Range: No data
Vapor Pressure: No data
Partition Coefficient (n-octanol/water) (Kow): No data

Vapor Density (air=1): >1
Upper Explosive Limits (vol % in air): No data
Lower Explosive Limits (vol % in air): No data
Evaporation Rate (nBuAc=1): No data
Particle Size: Not applicable
Percent Volatile: No data
Flammability (solid, gas): Not applicable
Solubility in Water: Negligible

Melting/Freezing Point: No data
Auto-ignition Temperature: No data
Decomposition Temperature: No data
Specific Gravity (water=1): 0.86 - 0.87 @ 60°F (15.6°C)
Bulk Density: 7.2 - 7.3 lbs/gal
Viscosity: 5.4 -11.3 cSt @ 100°C; 31.8 - 100 cSt @ 40°C
Pour Point: -11 to -35 °F / -24 to -35 °C

SECTION 10: Stability and reactivity

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid: Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

Incompatible materials: Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous decomposition products: Not anticipated under normal conditions of use.

SECTION 11: Toxicological information

Information on Toxicological Effects

Substance / Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful		>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful		> 2 g/kg (estimated)
Oral	Unlikely to be harmful		> 5 g/kg (estimated)

Aspiration Hazard: Not expected to be an aspiration hazard.

Skin Corrosion/Irritation: Not expected to be irritating. Repeated exposure may cause skin dryness or cracking.

Serious Eye Damage/Irritation: Not expected to be irritating.

Skin Sensitization: No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).

Respiratory Sensitization: No information available.

Specific Target Organ Toxicity (Single Exposure): Not expected to cause organ effects from single exposure.

Specific Target Organ Toxicity (Repeated Exposure): Not expected to cause organ effects from repeated exposure.

Carcinogenicity: No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

Germ Cell Mutagenicity: No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

Reproductive Toxicity: No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

Information on Toxicological Effects of Components

Distillates, petroleum, hydrotreated heavy paraffinic

Carcinogenicity: This oil has been highly refined by a variety of processes to reduce aromatics and improve performance characteristics. It meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International

Agency for Research on Cancer.

SECTION 12: Ecological information

GHS Classification: No classified hazards

Toxicity: All acute aquatic toxicity studies on samples of lubricant base oils show acute toxicity values greater than 100 mg/L for invertebrates, algae and fish. These tests were carried out on water accommodated fractions and the results are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

Persistence and Degradability: The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

Bioaccumulative Potential: Log Kow values measured for the hydrocarbon components of this material are greater than 5.3, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

Mobility in Soil: Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of the hydrocarbon constituents in soil and sediment.

Other adverse effects: None anticipated.

SECTION 13: Disposal considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste. This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

SECTION 14: Transport information

U.S. Department of Transportation (DOT)

UN Number: Not regulated

UN proper shipping name: None

Transport hazard class(es): None

Packing Group: None

Environmental Hazards: This product does not meet the DOT/UN/IMDG/IMO criteria of a marine pollutant

Special precautions for user: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory information

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

CERCLA/SARA - Section 313 and 40 CFR 372:

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

EPA (CERCLA) Reportable Quantity (in pounds):

This material does not contain any chemicals with CERCLA Reportable Quantities.

California Proposition 65:

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

International Hazard Classification

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

International Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.
All components are either on the DSL, or are exempt from DSL listing requirements.

U.S. Export Control Classification Number: EAR99

SECTION 16: Other information

Issue Date:	Previous Issue Date:	SDS Number	Status:
22-Jun-2016	29-Apr-2016	LBPH778982	FINAL

Revised Sections or Basis for Revision:

New SDS

Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer of Expressed and Implied Warranties:

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.