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

Product information

Product Name : Diesel Reference Fuel U-32
Material : 1108915, 1024281, 1024280, 1032195, 1024277, 1024279, 1024278

Use : Reference Fuel

Company : Chevron Phillips Chemical Company LP
Specialty Chemicals
10001 Six Pines Drive
The Woodlands, TX 77380

Local : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601,JEONGJAIL-RO,
BUNDANG-GU,SEONGNAMI-SI,
GYEONGGI-DO,13557
SOUTH KOREA
Telephone no.: +612-9186-1132

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)

Transport:
CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
EUROPE: BIG +32.14 584545 (phone) or +32.14583516 (telefax)
Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture
Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2016-19) (GHS 2011)

Classification

- Flammable liquids, Category 3
- Skin corrosion/irritation, Category 2
- Carcinogenicity, Category 1B
- Specific target organ toxicity - repeated exposure, Category 2, Blood, Liver, thymus gland
- Aspiration hazard, Category 1
- Short-term (acute) aquatic hazard, Category 1
- Long-term (chronic) aquatic hazard, Category 1

Labeling

Symbol(s):

Hazard Statements:

- H226: Flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H350: May cause cancer.
- H373: May cause damage to organs (Blood, Liver, thymus gland) through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting/equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P260: Do not breathe dust/fume/gas/mist/vapor/spray.
- P264: Wash the contact area thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P308 + P313: IF exposed or concerned: Get medical advice/attention.
- P321: Specific treatment (see supplemental first aid instructions on this label).
- P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391: Collect spillage.

Storage:
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:
P501: Dispose of contents and container according to wastes control act.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration</th>
<th>KECI Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Cycle Oil</td>
<td>64741-59-9</td>
<td>60 % - 70%</td>
<td>KE-12563</td>
</tr>
<tr>
<td>C12-C14 Isoalkanes</td>
<td>68551-19-9</td>
<td>30 % - 40%</td>
<td>KE-00534</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

General advice: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: 48 °C (118 °F)
Method: Tag closed cup

Autoignition temperature: No data available
**Suitable extinguishing media**: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

**Unsuitable extinguishing media**: High volume water jet.

**Specific hazards during fire fighting**: Do not allow run-off from fire fighting to enter drains or water courses.

**Special protective equipment for fire-fighters**: Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

**Fire and explosion protection**: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

**Hazardous decomposition products**: Carbon oxides.

### SECTION 6: Accidental release measures

**Personal precautions**: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods for cleaning up**: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7: Handling and storage

**Handling**

**Advice on safe handling**: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may
SAFETY DATA SHEET

Diesel Reference Fuel U-32

Version 1.9

Revision Date: 2019-08-06

Safeguarding is under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**Use**: Reference Fuel

**SECTION 8: Exposure controls/personal protection**

**Ingredients with workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>C12-C14 Isoalkanes</td>
<td>Manufacturer</td>
<td>TWA</td>
<td>1,200 mg/m3</td>
<td>RCP.</td>
</tr>
</tbody>
</table>

**Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into account...
consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td>Physical state : Liquid</td>
</tr>
<tr>
<td>Color : Yellow</td>
</tr>
<tr>
<td>Odor : Mild</td>
</tr>
<tr>
<td><strong>Safety data</strong></td>
</tr>
<tr>
<td>Flash point : 48 °C (118 °F)</td>
</tr>
<tr>
<td>Method: Tag closed cup</td>
</tr>
<tr>
<td>Lower explosion limit : No data available</td>
</tr>
<tr>
<td>Upper explosion limit : No data available</td>
</tr>
<tr>
<td>Oxidizing properties : No</td>
</tr>
<tr>
<td>Autoignition temperature : No data available</td>
</tr>
<tr>
<td>Thermal decomposition : No data available</td>
</tr>
<tr>
<td>Molecular formula : Mixture</td>
</tr>
<tr>
<td>Molecular weight : Not applicable</td>
</tr>
<tr>
<td>pH : Not applicable</td>
</tr>
<tr>
<td>Pour point : No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range : 176 - 317 °C (349 - 603 °F)</td>
</tr>
<tr>
<td>Vapor pressure : No data available</td>
</tr>
<tr>
<td>Relative density : 0.869 at 15.6 °C (60.1 °F)</td>
</tr>
<tr>
<td>Density : 0.8690 g/cm3</td>
</tr>
<tr>
<td>Property</td>
</tr>
<tr>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Bulk density</td>
</tr>
<tr>
<td>Water solubility</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
</tr>
<tr>
<td>Relative vapor density</td>
</tr>
<tr>
<td>Evaporation rate</td>
</tr>
<tr>
<td>Percent volatile</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

#### Reactivity
- Stable under recommended storage conditions.

#### Chemical stability
- This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### Possibility of hazardous reactions

##### Hazardous reactions
- Hazardous polymerization does not occur.
- Further information: No decomposition if stored and applied as directed.
- Hazardous reactions: Vapors may form explosive mixture with air.

##### Conditions to avoid
- Heat, flames and sparks.

##### Materials to avoid
- May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

##### Thermal decomposition
- No data available

##### Hazardous decomposition products
- Carbon oxides

##### Other data
- No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

**Diesel Reference Fuel U-32**

**Acute oral toxicity**
- LD50: > 5,000 mg/kg
### Diesel Reference Fuel U-32

#### Acute inhalation toxicity
- **Species:** Rat
- **Method:** Acute toxicity estimate
- **LC50:** > 20 mg/l
- **Exposure time:** 4 h
- **Species:** Rat
- **Test atmosphere:** dust/mist
- **Method:** Acute toxicity estimate

#### Acute dermal toxicity
- **Species:** Rabbit
- **Method:** Acute toxicity estimate
- **LD50:** > 5,000 mg/kg

#### Skin irritation
- **Species:** Rat
- **Method:** Acute toxicity estimate
- **Skin irritation** largely based on animal evidence.

#### Eye irritation
- **Species:** Rat
- **Method:** Acute toxicity estimate
- **May irritate eyes.**

#### Sensitization
- **Species:** Rat
- **Method:** Acute toxicity estimate
- **Does not cause sensitization.**

#### Repeated dose toxicity

##### Light Cycle Oil
- **Species:** Rat, males
  - **Sex:** males
  - **Application Route:** Dermal
  - **Dose:** 0, 8, 25, 125, 500, 1250 mg/kg
  - **Exposure time:** 90 day
  - **Number of exposures:** 5 days/wk
  - **NOEL:** 25 mg/kg
  - **Target Organs:** Blood, Liver, Thymus

- **Species:** Rat, females
  - **Sex:** females
  - **Application Route:** Dermal
  - **Dose:** 0, 8, 25, 125, 500, 1250 mg/kg
  - **Exposure time:** 90 day
  - **Number of exposures:** 5 days/wk
  - **NOEL:** 125 mg/kg
  - **Target Organs:** Blood, Liver, Thymus

##### C12-C14 Isoalkanes
- **Species:** Rat, male and female
  - **Sex:** male and female
  - **Application Route:** oral gavage
  - **Dose:** 500, 2500, 5000 mg/kg/d
  - **Exposure time:** 13 wk
  - **Number of exposures:** daily
  - **NOEL:** >= 5000 mg/kg/d
  - **Method:** OECD Test Guideline 408
  - **No adverse effects expected**
  - **Information given is based on data obtained from similar substances.**
### Diesel Reference Fuel U-32

<table>
<thead>
<tr>
<th>Application Route</th>
<th>Dose (mg/kg)</th>
<th>Exposure time</th>
<th>NOEL (mg/kg/d)</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
<td>165, 330, 495</td>
<td>13 wk</td>
<td>&gt; 495</td>
<td>OECD Guideline 411</td>
<td>No adverse effects expected</td>
</tr>
</tbody>
</table>

Information given is based on data obtained from similar substances.

<table>
<thead>
<tr>
<th>Application Route</th>
<th>Dose (mg/L)</th>
<th>Exposure time</th>
<th>NOEL (mg/l)</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>5, 10, 30</td>
<td>90 d</td>
<td>&gt; 30</td>
<td>OECD Test Guideline 413</td>
<td>No adverse effects expected</td>
</tr>
</tbody>
</table>

Information given is based on data obtained from similar substances.

### Genotoxicity in vitro

#### Light Cycle Oil
- **Test Type:** Modified Ames test  
  - Result: positive
- **Test Type:** Mouse lymphoma assay  
  - Result: positive
- **Test Type:** Sister Chromatid Exchange Assay  
  - Result: negative

#### C12-C14 Isoalkanes
- **Test Type:** Ames test  
  - Metabolic activation: with and without metabolic activation  
    - Result: negative
- **Test Type:** Mouse lymphoma assay  
  - Metabolic activation: with and without metabolic activation  
    - Result: negative
- **Test Type:** Sister Chromatid Exchange Assay  
  - Metabolic activation: with and without metabolic activation  
    - Result: negative

### Genotoxicity in vivo

#### Light Cycle Oil
- **Test Type:** Cytogenetic assay  
  - Result: negative

### Reproductive toxicity

**Diesel Reference Fuel U-32**
- **Carcinogenicity:** Remarks: May cause cancer.
C12-C14 Isoalkanes  :  Species: Rat  
Sex: male and female  
Application Route: oral gavage  
Dose: 50, 200, 750 mg/kg/bw/d  
Number of exposures: daily  
Test period: 70 d  
Method: OECD Test Guideline 416  
NOAEL Parent: >750 mg/kg/bw/d  
NOAEL F1: >750 mg/kg/bw/d  
No adverse effects expected  
Information given is based on data obtained from similar substances.

**Developmental Toxicity**

Light Cycle Oil  :  Species: Rat  
Application Route: Dermal  
Dose: 1, 50, 250 mg/kg/d  
Number of exposures: once daily  
Test period: GD 0-19  
Method: OECD Guideline 414  
NOAEL Teratogenicity: 1 mg/kg  
NOAEL Maternal: 1 mg/kg  

**Diesel Reference Fuel U-32**  
**Aspiration toxicity**  :  May be fatal if swallowed and enters airways.

**CMR effects**

Light Cycle Oil  :  Carcinogenicity: Possible human carcinogen  
C12-C14 Isoalkanes  :  Carcinogenicity: Not available  
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects  
Teratogenicity: Animal testing did not show any effects on fetal development.  
Reproductive toxicity: Animal testing did not show any effects on fertility.

**Diesel Reference Fuel U-32**  
**Further information**  :  Solvents may degrease the skin.

### SECTION 12: Ecological information

**Ecotoxicity effects**

**Toxicity to fish**

Light Cycle Oil  :  LL50: > 0.3 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
semi-static test Method: OECD Test Guideline 203  

C12-C14 Isoalkanes  :  LL50: > 1,000 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates

**Light Cycle Oil**
- EL50: 0.32 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- Immobilization Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

**C12-C14 Isoalkanes**
- LL50: > 3,000 mg/l
- Exposure time: 48 h
- Species: Acartia tonsa (Marine Copepod)
- Static test Method: ISO 14669 and PARCOM method
Information given is based on data obtained from similar substances.

Toxicity to algae

**Light Cycle Oil**
- EL50: 0.51 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (green algae)
- Growth inhibition Method: OECD Test Guideline 201

**C12-C14 Isoalkanes**
- EL50: > 1,000 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (green algae)
- Growth inhibition Method: OECD Test Guideline 201
Information given is based on data obtained from similar substances.

M-Factor

**Distillates (petroleum), light catalytic cracked**
- M-Factor (Acute Aquat. Tox.) 1
- M-Factor (Chronic Aquat. Tox.) 1

Toxicity to fish (Chronic toxicity)

**C12-C14 Isoalkanes**
- No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

**C12-C14 Isoalkanes**
- No data available

Biodegradability

- Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Elimination information (persistence and degradability)

Bioaccumulation

- The product may be accumulated in organisms.
**SAFETY DATA SHEET**

**Diesel Reference Fuel U-32**

Version 1.9  
Revision Date 2019-08-06

<table>
<thead>
<tr>
<th>Mobility</th>
<th>This product may float or sink in water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Results of PBT assessment</td>
<td></td>
</tr>
<tr>
<td>Light Cycle Oil</td>
<td>Non-classified PBT substance, Non-classified vPvB substance</td>
</tr>
<tr>
<td>C12-C14 Isoalkanes</td>
<td>Non-classified PBT substance, Non-classified vPvB substance</td>
</tr>
<tr>
<td>Additional ecological information</td>
<td></td>
</tr>
<tr>
<td><strong>Ecotoxicology Assessment</strong></td>
<td></td>
</tr>
<tr>
<td>Short-term (acute) aquatic hazard</td>
<td></td>
</tr>
<tr>
<td>Light Cycle Oil</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>C12-C14 Isoalkanes</td>
<td>This product has no known ecotoxicological effects.</td>
</tr>
<tr>
<td>Long-term (chronic) aquatic hazard</td>
<td></td>
</tr>
<tr>
<td>Light Cycle Oil</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>C12-C14 Isoalkanes</td>
<td>This product has no known ecotoxicological effects.</td>
</tr>
</tbody>
</table>

**SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

<table>
<thead>
<tr>
<th>Product</th>
<th>The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging</td>
<td>Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.</td>
</tr>
</tbody>
</table>

**SECTION 14: Transport information**

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.). Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.
## SECTION 15: Regulatory information

### National legislation

**Regulation under the Occupational Safety and Health Act**

A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemical name</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful Substances Prohibited from Manufacturing</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Harmful Substances Required Permission for Manufacture</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

### Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemical name</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic Chemicals</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Prohibited Chemicals</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Restricted Chemicals</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Toxic Release Inventory</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

### Dangerous Substances Safety Management Act

Dangerous Substances: Flammable liquids, Type 2 petroleums, Water insoluble liquid
Notification status

Europe REACH : This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).

United States of America (USA) TSCA : On or in compliance with the active portion of the TSCA inventory

Switzerland CH INV : On the inventory, or in compliance with the inventory

Canada DSL : All components of this product are on the Canadian DSL

Australia AICS : On the inventory, or in compliance with the inventory

New Zealand NZIoC : Not in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.

Philippines PICCS : Not in compliance with the inventory

China IECSC : On the inventory, or in compliance with the inventory

Taiwan TCSI : On the inventory, or in compliance with the inventory

SECTION 16: Other information

Further information

Legacy SDS Number : 664950

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>AICS</td>
</tr>
<tr>
<td>DSL</td>
</tr>
<tr>
<td>NDSL</td>
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