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

Product information
Product Name: N-Octyl Mercaptan
Material: 1115893, 1086427, 1092079, 1089361, 1086426, 1021507, 1021501, 1021505, 1021503, 1021502, 1021508, 1021506, 1021504, 1024813, 1026777, 1036311, 1021509, 1035162, 1024812, 1033723

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

Local: See Company Address

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
GHS Classification and labelling according to JIS Z7252-2014 and JIS Z7253-2012 (GHS 2011)

Classification:
- Flammable liquids, Category 4
- Acute toxicity, Category 4, Oral
- Acute toxicity, Category 4, Dermal
- Serious eye damage/eye irritation, Category 2
N-Octyl Mercaptan

Skin sensitization, Category 1
Specific target organ toxicity - single exposure, Category 2,
Central nervous system
Specific target organ toxicity - single exposure, Category 3,
Narcotic effects
Specific target organ toxicity - repeated exposure, Category 2,
Hematopoietic system
Short-term (acute) aquatic hazard, Category 1
Long-term (chronic) aquatic hazard, Category 1

Labeling

Symbol(s):

Signal Word: Warning

Hazard Statements:
H227: Combustible liquid.
H302 + H312: Harmful if swallowed or in contact with skin.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H371: May cause damage to organs (Central nervous system).
H373: May cause damage to organs (Hematopoietic system) through prolonged or repeated exposure.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:
P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/ eye protection/ face protection.

Response:
P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352: IF ON SKIN: Wash with plenty of water.
P302 + P352 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.
P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311: IF exposed or concerned: Call a POISON CENTER/ doctor.
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P362 + P364: Take off contaminated clothing and wash it...
N-Octyl Mercaptan

Version 1.17

before reuse.

P370 + P378: In case of fire: Use dry sand, dry chemical or
alcohol-resistant foam to extinguish.
P391: Collect spillage.

Storage:
P403 + P233: Store in a well-ventilated place. Keep container
tightly closed.
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

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

SECTION 3: Composition/information on ingredients

Synonyms : 1-Octanethiol
            normal-Octyl mercaptan
            NOM
            NC8SH

Molecular formula : C8H18S

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration</th>
<th>ENCS/ISHL number</th>
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<tr>
<td>n-Octyl Mercaptan</td>
<td>111-88-6</td>
<td>98.5 % - 100%</td>
<td>2-464</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 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. Do NOT induce vomiting. 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 : 69-71°C (156-160°F) at 101.325 kPa
Method: EU Method A.9

Autoignition temperature : No data available

SDS Number:100000013889 3/15
Suitable extinguishing media : Carbon dioxide (CO2).

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. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products : Carbon oxides. Sulfur oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

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). Keep in suitable, closed containers for disposal.

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. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion: Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

Storage:
Requirements for storage areas and containers: No smoking. Keep in a 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.

SECTION 8: Exposure controls/personal protection

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 work place 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 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 protective clothing. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

**Appearance**
- Form: Liquid
- Physical state: Liquid
- Color: Colorless
- Odor: Pungent

**Safety data**
- Flash point: 69-71°C (156-160°F) at 101.325 kPa
  Method: EU Method A.9
- Lower explosion limit: No data available
- Upper explosion limit: No data available
- Oxidizing properties: No
- Autoignition temperature: No data available
- Molecular formula: C8H18S
- Molecular weight: 146.32 g/mol
- pH: Not applicable
- Pour point: No data available
- Boiling point/boiling range: 199°C (390°F)
- Vapor pressure: 0.02 PSI at 37.8°C (100.0°F)
- Relative density: 0.85 at 16 °C (61 °F)
  0.85 at 16 °C (61 °F)
- Water solubility: Negligible
- Partition coefficient: n-octanol/water: No data available
- Viscosity, kinematic: 1.04 mm²/s at 40°C (104°F)
- Relative vapor density: 1
  (Air = 1.0)
- Evaporation rate: No data available
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.

Oxidizing solids. Oxidizing liquids.

Hazardous decomposition products : Carbon oxides

Sulfur oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity

n-Octyl Mercaptan : LD50: 2,436 mg/kg

Species: Rat

Sex: male and female

Method: Fixed Dose Method

Acute inhalation toxicity

n-Octyl Mercaptan : LC50: > 0.24 mg/l

Exposure time: 4 h

Species: Rat

Sex: male and female

Test atmosphere: vapor

Method: OECD Test Guideline 403

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable
Acute dermal toxicity

**n-Octyl Mercaptan**
- LD50: > 1,680 mg/kg
- Species: Rat
- Sex: male and female
- Method: OECD Test Guideline 402

Skin irritation

**n-Octyl Mercaptan**: slight irritation. largely based on animal evidence.

Eye irritation

**n-Octyl Mercaptan**: slight irritation. largely based on animal evidence.

Sensitization

**n-Octyl Mercaptan**: May cause sensitization by skin contact. largely based on animal evidence.

Repeated dose toxicity

**n-Octyl Mercaptan**
- Species: Rat, males
- Sex: males
- Application Route: Oral
- Dose: 0, 10, 50, 250 mg/kg
- Exposure time: 35 D
- Number of exposures: once daily
- NOEL: 50 mg/kg
- Method: OECD Guideline 422

**n-Octyl Mercaptan**
- Species: Rat, females
- Sex: females
- Application Route: Oral
- Dose: 0, 10, 50, 250 mg/kg
- Number of exposures: once daily
- NOEL: 50 mg/kg
- Method: OECD Guideline 422

Genotoxicity in vitro

**n-Octyl Mercaptan**
- Test Type: Reverse mutation assay
- Metabolic activation: with and without metabolic activation
- Method: Mutagenicity (Escherichia coli - reverse mutation assay)
- Result: negative

Test Type: Chromosome aberration test in vitro
- Test system: Human lymphocytes
- Metabolic activation: with and without metabolic activation
- Result: negative

Test Type: Sister chromatid exchange
- Metabolic activation: with and without metabolic activation
- Result: negative

Genotoxicity in vivo
n-Octyl Mercaptan : Test Type: Micronucleus test  
Species: Mouse  
Method: Mutagenicity (micronucleus test)  
Result: negative

Reproductive toxicity
n-Octyl Mercaptan : Species: Rat  
Sex: male  
Application Route: Oral diet  
Dose: 0, 10, 50, 250 mg/kg  
Exposure time: 35 D  
Number of exposures: once daily  
Method: OECD Guideline 422  
NOAEL Parent: 250 mg/kg  
NOAEL F1: 250 mg/kg

Species: Rat  
Sex: female  
Application Route: Oral diet  
Dose: 0, 10, 50, 250 mg/kg  
Number of exposures: once daily  
Method: OECD Guideline 422  
NOAEL Parent: 50 mg/kg  
NOAEL F1: 250 mg/kg

Developmental Toxicity
n-Octyl Mercaptan : Species: Rat  
Application Route: Oral diet  
Dose: 0, 10, 50, 250 mg/kg  
Number of exposures: once daily  
NOAEL Teratogenicity: 250 mg/kg

Aspiration toxicity
n-Octyl Mercaptan : May be harmful if swallowed and enters airways.

CMR effects
n-Octyl Mercaptan : Mutagenicity: Tests on bacterial or mammalian cell cultures 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.

N-Octyl Mercaptan Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish
n-Octyl Mercaptan : LC50: 0.326 mg/l
**N-Octyl Mercaptan**

Exposure time: 96 h  
Species: Oryzias latipes (Orange-red killifish)  
semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
Very toxic to fish.

**Toxicity to daphnia and other aquatic invertebrates**

n-Octyl Mercaptan : 0.0243 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Immobilization  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
Very toxic to aquatic organisms.

**Toxicity to algae**

n-Octyl Mercaptan : 0.039 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (microalgae)  
semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
Very toxic to algae.

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

n-Octyl Mercaptan : > 0.00467 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Toxic effects on fish and plankton

**Biodegradability**

n-Octyl Mercaptan : Result: Not readily biodegradable.  
0 %  
Testing period: 28 Days  
Method: OECD Test Guideline 301  
Information given is based on data obtained from similar substances.

**Bioaccumulation**

n-Octyl Mercaptan : Bioconcentration factor (BCF): 11.83  
Method: QSAR modeled data

**Mobility**

n-Octyl Mercaptan : Medium: Soil  
Method: Calculation, Mackay Level III Fugacity Model  
This product may float or sink in water.
N-Octyl Mercaptan

Medium: Water
Method: Calculation, Mackay Level III Fugacity Model
This product may float or sink in water.

Additional ecological information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard
n-Octyl Mercaptan: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard
n-Octyl Mercaptan: Very toxic to aquatic life with long lasting effects.

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.

Product:
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.

Contaminated packaging:
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.

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.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)
NA1993, COMBUSTIBLE LIQUID, N.O.S., (N-OCTYL MERCAPTAN), III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III, (69-71°C), MARINE POLLUTANT, (N-OCTYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

SDS Number: 100000013889 11/15
**N-Octyl Mercaptan**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

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

| Other information | n-Octyl Mercaptan, S.T. 1, Cat. X |

**SECTION 15: Regulatory information**

**National legislation**

Poisonous and Deleterious Substances Control Law

: Not applicable

**Industrial Safety and Health Law**

| Substances Subject to be Notified Names | Not applicable |
| Enforced Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) | |
| Harmful Substances Required Permission for Manufacture | Not applicable |
| Hazardous Substances Subject to Labeling Requirements | Not applicable |
| Ordinance on Prevention of Organic Solvent Poisoning | Not applicable |
| Ordinance on Prevention of Lead Poisoning | Not applicable |
| Harmful Substances Prohibited from Manufacture | Not applicable |
| Ordinance on Prevention of | Not applicable |

SDS Number: 100000013889 12/15
N-Octyl Mercaptan

Hazards Due to Specified Chemical Substances
Ordinance on Prevention of Tetraalkyl Lead Poisoning: Not applicable

Substances Prevented From Impairment of Health: Not applicable

Chemical Substance Control Law: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof: Not applicable

Other regulations
Fire Service Law: Flammable liquids
Type 2 petroleums
Hazardous rank III

Explosive Control Law: Not relevant

Vessel Safety Law: Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1), Marine pollutants

Aviation Law: Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

High Pressure Gas Safety Act: Not applicable

Explosive Control Law: Not applicable

Vessel Safety Law: Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law: Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Notification status
Europe REACH: On the inventory, or in compliance with the inventory
Switzerland CH INV: On the inventory, or in compliance with the inventory
United States of America (USA): On or in compliance with the active portion of the
N-Octyl Mercaptan

SAFETY DATA SHEET

Version 1.17  Revision Date 2020-03-09

TSCA
Canada  DSL : TSCA inventory
Australia  AICS : On the inventory, or in compliance with the inventory
New Zealand  NZIoC : On the inventory, or in compliance with the inventory
Japan  ENCS : On the inventory, or in compliance with the inventory
Korea  KECI : All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem’s notifications or if the Importer of Record themselves notified the substances.

Philippines  PICCS : On the inventory, or 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 : 76100

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.

Key or legend to abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
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<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
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<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
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<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
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<td>DSL</td>
<td>Canada, Domestic Substances List</td>
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<td>NFPA</td>
<td>National Fire Protection Agency</td>
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<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
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<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<td>CNS</td>
<td>Central Nervous System</td>
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<td>NTP</td>
<td>National Toxicology Program</td>
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<td>Chemical Abstract Service</td>
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<td>New Zealand Inventory of Chemicals</td>
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<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>European Oilfield Specialty Chemicals Association</td>
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<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<td>GHS</td>
<td>Globally Harmonized System</td>
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<td>RCRA</td>
<td>Resource Conservation Recovery</td>
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SDS Number:100000013889  14/15
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<td>Inhibition Concentration 50%</td>
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<td>Korea, Existing Chemical Inventory</td>
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