# SAFETY DATA SHEET

## SCENTINEL® H-85 Gas Odorant

**Version 2.1**

**Revision Date 2018-06-18**

**SDS Number:** 100000014185

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

### Product information

<table>
<thead>
<tr>
<th>Product Name</th>
<th>SCENTINEL® H-85 Gas Odorant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>1098411, 1100259, 1098410, 1098409, 1033622, 1033621</td>
</tr>
</tbody>
</table>

### Company

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

### 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 (+61 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**

### ODOR-FADE WARNING

A GAS LEAK CAN CAUSE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.

Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas leak or the presence of propane or natural gas to all persons in every instance.

Instances where the odorant in an odorized gas may be undetectable include:

- Odor intensity may fade or be eliminated for a variety of chemical and physical causes, including the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.
- Contact with soil in underground leaks may de-odorize or remove odorant from the gas.
- Some people have a diminished ability, or inability to smell the stench. Factors that negatively affect a person's sense of smell include age, gender, medical conditions, and alcohol/tobacco usage.
- The stench of odorized gas may not awaken sleeping persons.

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• Other odors may mask or hide the stench.
• Exposure to the odor for even a short period of time, may cause nasal fatigue, where a person can no longer smell the stench.

Gas detectors listed by the Underwriters Laboratories (UL) can be used as an extra measure of safety for detecting gas leaks, especially under conditions where the odorant alone may not provide an adequate warning. Gas detectors emit a loud, shrill sound when gas is present and do not depend on sense of smell. Because the odor intensity can fade or people may have problems with their sense of smell, we recommend installing, per manufacturer’s instructions, one or more combustible gas detectors, in suitable locations to ensure adequate coverage to detect gas leaks.

Educate yourself, your employees, and your customers with the content of this warning and other important facts associated with the so-called “odor-fade phenomenon.”

SECTION 2: Hazards identification

Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification
- Flammable liquids, Category 2
- Skin irritation, Category 2
- Skin sensitization, Category 1
- Reproductive toxicity, Category 2
- Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system
- Specific target organ systemic toxicity - repeated exposure, Category 2, Nervous system
- Aspiration hazard, Category 1

Labeling
Symbol(s):
- Fire
- Person
- Exclamation

Signal Word: Danger

Hazard Statements:
- H225: Highly flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs (Nervous system) through prolonged or repeated exposure.

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.
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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 skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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.

Carcinogenicity:

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

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

ACGIH
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3: Composition/information on ingredients

Synonyms : None
Molecular formula : Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-hexane</td>
<td>110-54-3</td>
<td>80 - 90</td>
</tr>
<tr>
<td>sec-butyl Mercaptan</td>
<td>513-53-1</td>
<td>10 - 20</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: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.

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. Do not give milk or alcoholic beverages. 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: -18 °C (0 °F)

Estimated

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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
### 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 be under pressure. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. 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.

### SECTION 8: Exposure controls/personal protection

**Ingredients with workplace control parameters**

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<table>
<thead>
<tr>
<th>US</th>
<th>Ingredients</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-hexane</td>
<td>ACGIH</td>
<td>TWA</td>
<td>50 ppm,</td>
<td>CNS impair, eye irr, peripheral neuropathy, BEI, Skin,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>500 ppm, 1,800 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>50 ppm, 180 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(b) The value in mg/m³ is approximate.

BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)

CNS impair Central Nervous System impairment

eye irr Eye irritation

Peripheral Peripheral neuropathy

Skin Danger of cutaneous absorption

**Immediately Dangerous to Life or Health Concentrations (IDLH)**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-hexane</td>
<td>110-54-3</td>
<td>Immediately Dangerous to Life or Health Concentration Value 1100 parts per million</td>
<td>1995-03-01</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 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 antistatic protective clothing. Skin should be washed after contact. Remove and wash contaminated clothing before reuse. Workers should wear antistatic footwear.

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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

**Information on basic physical and chemical properties**

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

**Safety data**
- **Flash point**: -18 °C (0 °F) estimated
- **Lower explosion limit**: No data available
- **Upper explosion limit**: No data available
- **Oxidizing properties**: no
- **Autoignition temperature**: No data available
- **Molecular formula**: Mixture
- **Molecular weight**: 98.8 g/mol
- **pH**: No data available
- **Freezing point**: -45.6 °C (-50.1 °F)
- **Pour point**: No data available
- **Boiling point/boiling range**: 67 - 72 °C (153 - 162 °F)
- **Vapor pressure**: No data available
- **Relative density**: 0.69 at 15.6 °C (60.1 °F)
- **Density**: 690.2 g/l
- **Water solubility**: Negligible
- **Partition coefficient: n-octanol/water**: No data available
- **Viscosity, kinematic**: No data available
- **Relative vapor density**: 3.4
- **Evaporation rate**: No data available
SECTION 10: Stability and reactivity

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

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

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

Hazardous decomposition products : Carbon oxides
Sulfur oxides

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

SECTION 11: Toxicological information

SCENTINEL® H-85 Gas Odorant
Acute oral toxicity : LD50: > 5,000 mg/kg
Method: Acute toxicity estimate

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Acute inhalation toxicity : LC50: > 20 mg/l
Method: Acute toxicity estimate

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Acute dermal toxicity : Acute toxicity estimate: 3,895 mg/kg
Method: Calculation method

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Skin irritation : Irritating to skin.
May cause skin irritation and/or dermatitis.

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Eye irritation : May cause eye irritation.
Vapors may cause irritation to the eyes, respiratory system and the skin.

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Sensitization : Causes sensitization.

Repeated dose toxicity
n-hexane : Species: Rat, male
Sex: male
Application Route: Inhalation
Dose: 3,000 ppm
Exposure time: 16 wks
Number of exposures: 12 h/d
Lowest observable effect level: 3,000 ppm
Target Organs: Peripheral nervous system

Species: Mouse, female
Sex: female
Application Route: Inhalation
Dose: 500, 1,000, 4,000, 10,000 ppm
Exposure time: 13 wks
Number of exposures: 6h or 22h (1,000 ppm)/ 5d/wk
Lowest observable effect level: 500 ppm
Target Organs: Nose

Species: Mouse, male
Sex: male
Application Route: Inhalation
Dose: 500, 1,000, 4,000, 10,000 ppm
Exposure time: 13 wks
Number of exposures: 6h or 22h (1,000 ppm)/d, 5d/wk
NOEL: 500 ppm
Lowest observable effect level: 1,000 ppm
Target Organs: Nose

Species: Rat, male
Sex: male
Application Route: oral gavage
Dose: 568, 1,135, 3,973 mg/kg bw/day
Exposure time: 90 or 120 days
Number of exposures: Daily or 5d/wk (120-d study)
NOEL: 568 mg/kg bw/day
Lowest observable effect level: 1135 mg/kg bw/day

sec-butyl Mercaptan
Species: Rat, male and female
Sex: male and female
Application Route: Inhalation
Exposure time: 13 wks
Number of exposures: 6 hrs/d, 5 d/wk
NOEL: 0.367 mg/l 99.6 ppm
Lowest observable effect level: 1.488 mg/l 403.4 ppm
Method: OECD Guideline 413
Target Organs: Blood, Liver, Kidney, Upper respiratory tract

Carcinogenicity
n-hexane
Species: Rat
Dose: 0.043, 900, 3,000, 9,016 ppm
Exposure time: 2 yrs
Number of exposures: 6 h/d, 5 d/wk
Remarks: No evidence of carcinogenicity, Information given is based on data obtained from similar substances.
### Reproductive toxicity

**n-hexane**
- **Species:** Rat
- **Sex:** male and female
- **Application Route:** Inhalation
- **Dose:** 5,000 ppm
- **Number of exposures:** 16 hr/d, 6 d/wk
- **Test period:** 6 wks
- **Remarks:** Permanent testicular damage characterized by loss of germ-cell line

**sec-butyl Mercaptan**
- **Species:** Rat
- **Sex:** male and female
- **Application Route:** Oral gavage
- **Dose:** 10, 50, 200 mg/kg bw/d
- **Number of exposures:** Daily
- **Test period:** 42-50 days
- **Method:** OECD Guideline 422
- **NOAEL Parent:** 200 mg/kg
- **NOAEL F1:** 50 mg/kg
- **Remarks:** Information given is based on data obtained from similar substances.

### Developmental Toxicity

**n-hexane**
- **Species:** Mouse
- **Application Route:** Inhalation
- **Dose:** 200, 1,000, 5,000 ppm
- **Number of exposures:** 20 hr/d, daily
- **Test period:** GD 6-20
- **NOAEL Teratogenicity:** 200 ppm
- **NOAEL Maternal:** 200 ppm

**sec-butyl Mercaptan**
- **Species:** Rat
- **Application Route:** Inhalation
- **Dose:** 11, 99, 195 ppm
- **Exposure time:** GD 6-16
- **Number of exposures:** 6 hrs/d
- **Method:** OECD Guideline 414
- **NOAEL Teratogenicity:** > = 195 ppm
- **NOAEL Maternal:** > = 195 ppm
- **Remarks:** Information given is based on data obtained from similar substances.
Species: Mouse
Application Route: Inhalation
Dose: 11, 99, 195 ppm
Exposure time: GD 6-16
Number of exposures: 6 hrs/d
Method: OECD Guideline 414
NOAEL Teratogenicity: \( \geq 195 \) ppm
NOAEL Maternal: \( \geq 195 \) ppm
Information given is based on data obtained from similar substances.

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**Aspiration toxicity**
May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

**CMR effects**
n-hexane: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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**Further information**
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

**SECTION 12: Ecological information**

**Ecotoxicity effects**

**Toxicity to fish**
LC50: 9 mg/l
Exposure time: 96 h
Species: Salmo gairdneri (Rainbow trout)

**Toxicity to daphnia and other aquatic invertebrates**
n-hexane: EL50: 21.85 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: QSAR modeled data

sec-butyl Mercaptan: 0.56 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Immobilization Method: OECD Test Guideline 202
Information refers to the main ingredient.
**Toxicity to algae**

n-hexane  
: EL50: 9.29 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: QSAR modeled data

sec-butyl Mercaptan  
: EC50: 3.4 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Growth inhibition Method: OECD Test Guideline 201

**M-Factor**

butane-2-thiol  
: M-Factor (Acute Aquat. Tox.) 1  
M-Factor (Chron. Aquat. Tox.) 1

**Bioaccumulation**

n-hexane  
: Bioconcentration factor (BCF): 501  
Does not significantly accumulate in organisms.

**Ecotoxicology Assessment**

Acute aquatic toxicity

n-hexane  
: Toxic to aquatic life.

sec-butyl Mercaptan  
: Very toxic to aquatic life.

Chronic aquatic toxicity

n-hexane  
: Toxic to aquatic life with long lasting effects.

sec-butyl Mercaptan  
: Very toxic to aquatic life with long lasting effects.

**Results of PBT assessment**

n-hexane  
: Non-classified vPvB substance, Non-classified PBT substance

**Additional ecological information**  
: 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.

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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)**

UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (HEXANE, SEC-BUTYL MERCAPTAN), 3, II, MARINE POLLUTANT, (HEXANE), RQ (HEXANE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (HEXANE, SEC-BUTYL MERCAPTAN), 3, II, (-18 °C), MARINE POLLUTANT, (HEXANE, SEC-BUTYL MERCAPTAN)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (HEXANE, SEC-BUTYL MERCAPTAN), 3, II

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (HEXANE, SEC-BUTYL MERCAPTAN), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (HEXANE, SEC-BUTYL MERCAPTAN)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (HEXANE, SEC-BUTYL MERCAPTAN), 3, II, ENVIRONMENTALLY HAZARDOUS, (HEXANE, SEC-BUTYL MERCAPTAN)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (HEXANE, SEC-BUTYL MERCAPTAN), 3, II, ENVIRONMENTALLY HAZARDOUS, (HEXANE, SEC-BUTYL MERCAPTAN)
SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards: Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Respiratory or skin sensitization
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

CERCLA Reportable Quantity: Calculated RQ exceeds reasonably attainable upper limit.
n-hexane

SARA 302 Reportable Quantity: This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

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

n-hexane - 110-54-3

Clean Air Act

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

n-hexane - 110-54-3

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).
US State Regulations

Pennsylvania Right To Know : n-hexane - 110-54-3
                            : sec-butyl Mercaptan - 513-53-1

New Jersey Right To Know  : n-hexane - 110-54-3
                            : sec-butyl Mercaptan - 513-53-1

California Prop. 65        : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
Ingredients

Notification status
Europe  REACH                : Not in compliance with the inventory
United States of America (USA) : On TSCA Inventory
TSCA                         :
Canada  NDSL                 : This product contains one or several components listed in the Canadian NDSL.
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                   : On the inventory, or in compliance with the inventory
Philippines  PICCS           : Not in compliance with the inventory
China  IECSC                  : Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2
                     : Fire Hazard: 3
                     : Reactivity Hazard: 0

Further information
Legacy SDS Number : 99700

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.

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<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
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