

Version 2.2 Revision Date 2022-08-15

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

Product information

Product Name : SCENTINEL® H-85 Gas Odorant

Material : 1122833, 1098411, 1100259, 1098410, 1098409, 1033622,

1033621

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 (+612 9186 1132) China: 0532 8388 9090

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

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

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Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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.
- 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

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Flammable liquids, Category 2 Skin irritation, Category 2 Skin sensitization, Category 1 Reproductive toxicity, Category 2

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

Specific target organ toxicity - repeated exposure, Category 2,

Inhalation, Nervous system Aspiration hazard, Category 1

Labeling

Symbol(s) :







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 if inhaled.

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/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

snower.

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 to extinguish.

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Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

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.

SECTION 3: Composition/information on ingredients

Synonyms : None

Molecular formula : Mixture

Component	CAS-No.	Weight %
n-hexane	110-54-3	80 - 90
sec-butyl Mercaptan	513-53-1	10 - 20

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. 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

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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 a naked flame or any 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.

Hazardous decomposition

products

: Carbon oxides. Sulfur 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.

: Prevent product from entering drains. Prevent further leakage Environmental precautions

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

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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 a naked flame or any 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

US

Components	Basis	Value	Control parameters	Note
n-hexane	ACGIH	TWA	50 ppm,	Skin,
	OSHA Z-1	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	TWA	50 ppm, 180 mg/m3	

Skin Danger of cutaneous absorption

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
n-hexane	110-54-3	Immediately Dangerous to Life or Health Concentration Value 1100 parts per million	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
n-hexane	110-54-3	-54-3 2,5-Hexanedione: 0.5 mg/l Without hydrolysis (Urine)		2020-02-01

Engineering measures

Adequate ventilation to control airborned 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.

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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, aerosolization, 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 re-

use. 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

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

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Molecular weight : 98.8 g/mol

pH : No data available

Freezing point : -45.6°C (-50.1°F)

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-

Viscosity, kinematic

octanol/water

: No data available

: 0.43 cSt

at 40°C (104°F)

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

Hazardous reactions : Hazardous reactions: Hazardous polymerization does not

occur.

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.

Hazardous decomposition

products

: Carbon oxides

Sulfur oxides

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

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SECTION 11: Toxicological information

Acute oral toxicity

n-hexane : LD50: 16 g/kg

Species: Rat

Sex: male and female

sec-butyl Mercaptan LD50: 5,176 mg/kg

Species: Rat

Acute inhalation toxicity

n-hexane : LC50: 73860 ppm

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

Information given is based on data obtained from similar

substances.

sec-butyl Mercaptan LC50: 98.3 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female Test atmosphere: vapor

Information given is based on data obtained from similar

substances.

Acute dermal toxicity

n-hexane : LD50: > 3,350 mg/kg

Species: Rabbit Sex: male and female

Information given is based on data obtained from similar

substances.

sec-butyl Mercaptan LD50: > 2,000 mg/kg

Species: Rat

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Skin irritation : Skin irritation

largely based on animal evidence.

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Eye irritation : Vapors may cause irritation to the eyes, respiratory system

and the skin.

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Sensitization : Causes sensitization.

largely based on animal evidence.

Repeated dose toxicity

n-hexane : Species: Rat, male

Sex: male

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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, 4000, 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

Genotoxicity in vitro

n-hexane : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

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Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: Positive results were obtained in some in vitro tests.

Genotoxicity in vivo

n-hexane : Test Type: Dominant lethal assay

Species: Mouse Dose: 100 and 400 ppm

Result: negative

Test Type: Cytogenetic assay

Species: Rat

Dose: 900, 3000, 9000 ppm

Result: negative

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.

Species: Mouse Sex: male and female

Dose: 0.039, 900, 3,000, 9,018 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

Application Route: Inhalation

Dose: 5,000 ppm

Number of exposures: 16 hr/d, 6 d/wk

Test period: 6 wks

permanent testicular damage characterized by loss of germ-

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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

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NOAEL F1: 50 mg/kg

Information given is based on data obtained from similar

substances.

Developmental Toxicity

n-hexane : Species: Rat

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

Species: Mouse

Application Route: Inhalation Dose: 200, 1,000, 5,000 ppm Number of exposures: 20 hr/d, daily

Test period: GD 6-17

NOAEL Maternal: 1,000 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

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: > = 195 ppm
NOAEL Maternal: > = 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.

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

Toxicity to fish

n-hexane : LL50: 12.51 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR modeled data

sec-butyl Mercaptan LC50: 8.5 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

static test Analytical monitoring: yes Method: OECD Test Guideline 203

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.)

Biodegradability

n-hexane : This material is expected to be readily biodegradable.

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sec-butyl Mercaptan : aerobic

Result: Not readily biodegradable.

6 %

Testing period: 63 d

Method: OECD Test Guideline 301F

Information given is based on data obtained from similar

substances.

Bioaccumulation

n-hexane : Bioconcentration factor (BCF): 501

Does not significantly accumulate in organisms.

sec-butyl Mercaptan : Bioconcentration factor (BCF): 12.67

Method: QSAR modeled data

This material is not expected to bioaccumulate.

Mobility

n-hexane : Method: Calculation, Mackay Level III Fugacity Model

The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

sec-butyl Mercaptan : Method: Calculation, Mackay Level III Fugacity Model

The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

Results of PBT assessment

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

: Toxic to aquatic life with long lasting effects.

Additional ecological

information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

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n-hexane : Toxic to aquatic life.

sec-butyl Mercaptan : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

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

sec-butyl 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.

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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)

UN3295, HYDROCARBONS, LIQUID, N.O.S., (N-HEXANE, SEC-BUTYL MERCAPTAN), 3, II, MARINE POLLUTANT, (N-HEXANE), RQ (N-HEXANE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3295, HYDROCARBONS, LIQUID, N.O.S., (N-HEXANE, SEC-BUTYL MERCAPTAN), 3, II, (-18 °C c.c.), MARINE POLLUTANT, (N-HEXANE, SEC-BUTYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., (N-HEXANE, SEC-BUTYL MERCAPTAN), 3, II

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., (N-HEXANE, SEC-BUTYL MERCAPTAN), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (N-HEXANE, SEC-BUTYL MERCAPTAN)

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

33,UN3295,HYDROCARBONS, LIQUID, N.O.S., (N-HEXANE, SEC-BUTYL MERCAPTAN), 3, II, ENVIRONMENTALLY HAZARDOUS, (N-HEXANE, SEC-BUTYL MERCAPTAN)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., (N-HEXANE, SEC-BUTYL MERCAPTAN), 3, II, ENVIRONMENTALLY HAZARDOUS, (N-HEXANE, SEC-BUTYL MERCAPTAN)

Maritime transport in bulk according to IMO instruments

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Version 2.2 Revision Date 2022-08-15

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

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

CERCLA Reportable

Quantity

: 5813 lbs

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 Components : 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 112 (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).

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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

California Prop. 65

Components

: WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more

information go to www.P65Warnings.ca.gov.

110-54-3 n-hexane

Notification status

Europe REACH Not 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

TSCA inventory

TSCA

This product contains one or several components listed Canada NDSL

in the Canadian NDSL.

Other AIIC 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 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 or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS Not in compliance with the inventory

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

China IECSC Not in compliance with the inventory

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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.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect	
	Substances		Level	
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency	
	List			
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational	
	Substances List		Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of	
			Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect	
			Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health	
	Scenario Tool		Administration	
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit	
	Chemicals Association			
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of	
	Chemical Substances		Commercial Chemical Substances	
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic	
	Values			
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery	
			Act	
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit	
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and	
			Reauthorization Act.	
IARC	International Agency for Research	TLV	Threshold Limit Value	
	on Cancer			
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average	
	Substances in China			
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act	

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SCENTINEL® H-85 Gas Odorant

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	New Chemical Substances		
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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