## **SAFETY DATA SHEET**

## **BLUE TAC CHAIN LUBRICANT**



## **Section 1. Identification**

GHS product identifier : BLUE TAC CHAIN LUBRICANT

Product code : 301125150285

Other means of : Not available.
identification

Product type : Aerosol.

## Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Industrial applications: Lubricating Oil	
Uses advised against	Reason

Supplier's details : Calumet Branded Products, LLC

2780 Waterfront Pkwy E. Drive Suite 200

Indianapolis, IN 46214

USA

Technical Services:317-328-5660

**Emergency telephone** 

number

: 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS status** 

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE AEROSOLS - Category 1

GASES UNDER PRESSURE - Compressed gas

SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic

environment: 25%

## **GHS label elements**

Hazard pictograms









Signal word

Danger

**Hazard statements** 

: Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

May cause an allergic skin reaction. May cause drowsiness or dizziness.

Very toxic to aquatic life with long lasting effects.

## **Precautionary statements**

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## Section 2. Hazards identification

#### **Prevention**

: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing dust or mist. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Pressurized container: Do not pierce or burn, even after use.

#### Response

: Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

#### **Storage**

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.

## **Disposal**

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Hazards not otherwise classified

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture

: Not available.

Ingredient name	%	CAS number
<b>F</b> eptane	≥25 - ≤50	142-82-5
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	≥25 - ≤50	9003-29-6
propane	≥10 - ≤25	74-98-6
butane	≥10 - ≤25	106-97-8
Distillates (petroleum), hydrotreated light	≤3	64742-47-8
Amines, C12-14-alkyl, isooctyl phosphates	<1	68187-67-7
2,5-bis(octyldithio)-1,3,4-thiadiazole	≤0.3	13539-13-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## **Description of necessary first aid measures**

## **Eye contact**

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

#### Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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## Section 4. First aid measures

## Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

## Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: Do not use water jet.

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## Section 5. Fire-fighting measures

# Specific hazards arising from the chemical

: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

# Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

# Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

# Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

## Methods and materials for containment and cleaning up

## Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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## Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

# Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
Meptane    Telephone    Teleph	ACGIH TLV (United States, 3/2020).  TWA: 400 ppm 8 hours.  TWA: 1640 mg/m³ 8 hours.  STEL: 500 ppm 15 minutes.  STEL: 2050 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 500 ppm 8 hours.  TWA: 2000 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 400 ppm 8 hours.  TWA: 400 ppm 8 hours.  STEL: 500 ppm 15 minutes.  STEL: 500 ppm 15 minutes.  STEL: 2000 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 85 ppm 10 hours.  TWA: 350 mg/m³ 10 hours.  CEIL: 440 ppm 15 minutes.  CEIL: 1800 mg/m³ 15 minutes.
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	None.
propane	OSHA PEL 1989 (United States, 3/1989).  TWA: 1000 ppm 8 hours.  TWA: 1800 mg/m³ 8 hours.  NIOSH REL (United States, 10/2016).  TWA: 1000 ppm 10 hours.  TWA: 1800 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 1000 ppm 8 hours.  TWA: 1800 mg/m³ 8 hours.  ACGIH TLV (United States, 3/2020). Oxygen Depletion [Asphyxiant]. Explosive potential.
butane	OSHA PEL 1989 (United States, 3/1989).

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## Section 8. Exposure controls/personal protection

TWA: 800 ppm 8 hours. TWA: 1900 mg/m<sup>3</sup> 8 hours.

NIOSH REL (United States, 10/2016).

TWA: 800 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. ACGIH TLV (United States, 3/2020).

Explosive potential.

STEL: 1000 ppm 15 minutes.

ACGIH TLV (United States, 3/2020).

Absorbed through skin.

TWA: 200 mg/m³, (as total hydrocarbon

vapor) 8 hours.

None. None.

Distillates (petroleum), hydrotreated light

Amines, C12-14-alkyl, isooctyl phosphates

2,5-bis(octyldithio)-1,3,4-thiadiazole

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Aerosol.]
Color : Not available.
Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.

Flash point : Open cup: -104°C (-155.2°F) [Propellant]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 0.536

Solubility : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 15 cm²/s (1500 cSt)

Flow time (ISO 2431) : Not available.

**Aerosol product** 

Type of aerosol : Spray
Heat of combustion : 31.5 kJ/g

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials**: No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **Section 11. Toxicological information**

Information on toxicological effects

**Acute toxicity** 

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## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
<b>b</b> eptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m³	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
Butene, homopolymer	LD50 Dermal	Rabbit	>10250 mg/kg	-
(products derived from either/				
or But-1-ene/But-2-ene)				
	LD50 Oral	Rat	>34600 mg/kg	-
butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
Distillates (petroleum),	LD50 Dermal	Rabbit	>2000 mg/kg	-
hydrotreated light				
	LD50 Oral	Rat	>5000 mg/kg	-

## **Irritation/Corrosion**

Not available.

## **Sensitization**

Not available.

## **Mutagenicity**

Not available.

## Carcinogenicity

Not available.

## **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Name	3 3 3	Route of exposure	Target organs
heptane	Category 3	-	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Name	Result
heptane	ASPIRATION HAZARD - Category 1
	ASPIRATION HAZARD - Category 1
2-ene)	A O DID A TIONI LIA ZA DD. O
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

## Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contactIngestionCauses skin irritation. May cause an allergic skin reaction.Can cause central nervous system (CNS) depression.

## Symptoms related to the physical, chemical and toxicological characteristics

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## Section 11. Toxicological information

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

## **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
LUE TAC CHAIN LUBRICANT	N/A	4038.6	N/A	N/A	N/A
heptane	N/A	2500	48000	103	N/A
butane	N/A	N/A	N/A	658	N/A
Distillates (petroleum), hydrotreated light	N/A	2500	N/A	N/A	N/A
Amines, C12-14-alkyl, isooctyl phosphates	500	1100	N/A	N/A	N/A
2,5-bis(octyldithio)-1,3,4-thiadiazole	N/A	N/A	N/A	11	N/A

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## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
heptane  Distillates (petroleum), hydrotreated light	Acute EC50 1.5 mg/l Acute LC50 375000 μg/l Fresh water Acute EC50 >1000 mg/l	Daphnia Fish - Oreochromis mossambicus Algae	48 hours 96 hours 72 hours
Trydrottodiod light	Acute LC50 >1000 mg/l Fresh water	Daphnia	48 hours

## Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Distillates (petroleum), hydrotreated light	OECD 301F Ready Biodegradability - Manometric Respirometry Test	69 % - Readily - 28	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	3	Biodegradability
Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene) Distillates (petroleum), hydrotreated light	-		-		Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
heptane	4.66	552	high
Butene, homopolymer (products derived from either/ or But-1-ene/But-2-ene)	7.6 to 7.8	314 to 1882	high
propane butane	1.09 2.89		low low

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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## **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols. Marine pollutant (heptane)	AEROSOLS. Marine pollutant (heptane)	AEROSOLS. Marine pollutant (heptane)	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1	2.1
Packing group	-	-	-	-
Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

#### **Additional information**

**DOT Classification** 

: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. **Limited quantity** Yes.

Packaging instruction Exceptions: 306. Non-bulk: None. Bulk: None. Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

Special provisions N82

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.13-2.17 (Class 2), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.

**Explosive Limit and Limited Quantity Index** 1 Passenger Carrying Road or Rail Index 75

Special provisions 80, 107

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-D, S-U

**Special provisions** 63, 190, 277, 327, 344, 381, 959

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203.

Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y203.

Special provisions A145, A167, A802

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

## Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: heptane

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: ethylbenzene

Clean Water Act (CWA) 311: xylene; ethylbenzene

Clean Air Act (CAA) 112 regulated flammable substances: propane; butane

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## Section 15. Regulatory information

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

**Class I Substances** 

Clean Air Act Section 602

Class II Substances

: Not listed

Class II Substances

**DEA List I Chemicals** : Not listed

(Precursor Chemicals)

DEA List II Chemicals :

: Not listed

(Essential Chemicals)

**SARA 302/304** 

#### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : FLAMMABLE AEROSOLS - Category 1

GASES UNDER PRESSURE - Compressed gas

SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

#### **Composition/information on ingredients**

Name	%	Classification
heptane	≥25 - ≤50	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Static-accumulating flammable liquid
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	≥25 - ≤50	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light 2,5-bis(octyldithio) -1,3,4-thiadiazole	≤3 ≤0.3	FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 1 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1A

#### **State regulations**

Massachusetts : The following components are listed: HEPTANE; N-HEPTANE; PROPANE; BUTANE

**New York** : None of the components are listed.

New Jersey : The following components are listed: n-HEPTANE; HEPTANE; PROPANE; BUTANE

Pennsylvania: The following components are listed: HEPTANE; PROPANE; BUTANE

California Prop. 65

**WARNING**: This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Information provided is based on industrial use and may not be relevant to consumer applications.

Ingredient name	Concentration (%)		Maximum acceptable dosage level
Ethylbenzene	0.0015 - 0.00375	Yes.	-

## Section 15. Regulatory information

## **International lists**

**National inventory** 

Australia : All components are listed or exempted.

Canada : At least one component is not listed in DSL but all such components are listed in NDSL.

China : All components are listed or exempted.Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

## Section 16. Other information

## **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

## Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	On basis of test data
SKIN IRRITATION - Category 2	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

#### **History**

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## Section 16. Other information

## **Key to abbreviations**

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

▼ Indicates information that has changed from previously issued version.

## **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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