## SAFETY DATA SHEET





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

1.1 Product identifier

Product name : BLUE TAC CHAIN LUBRICANT UFI : €2E2-UFYR-QNKN-WRP4

Product code : 301125150285

Product description : Lubricating Oil

Product type : Aerosol.

Other means of : Not available.

identification

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

Identified uses

Lubricating Oil

**Uses advised against** 

None known.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer:

Calumet Branded Products, LLC 2780 Waterfront Pkwy E. Drive Suite 200 Indianapolis, IN 46214

USA

Technical Services:317-328-5660

Supplier:

Monument Chemical BVBA Haven 1972, Ketenislaan 3 B-9130 Kallo (Kieldrecht) Belgium +32 3 570 28 11

e-mail address of person responsible for this SDS

: technical@calumetspecialty.com

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

**Telephone number** : 0800-181-7059

**CHEMTREC** 

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

Belgium: +(32)-28083237

Czech Republic: +(420)-228880039

Denmark: +(45)-69918573 Finland: +(358)-942419014 France: +(33)-975181407

Germany: 0800-181-7059, +(49)-69643508409

Greece: +(30)-2111768478 Ireland: +(353)-19014670

Italy: 800-789-767, +(39)-0245557031

Latvia: +(371)-66165504 Netherlands: +(31)-858880596 Norway: +(47)-21930678

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

Poland: +(48)-223988029 Portugal: +(351)-308801773

Spain: 900-868538, +(34)-931768545

Sweden: +(46)-852503403

United Kingdom (UK): +(44)-870-8200418

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms







Signal word : Danger

**Hazard statements** : H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if

heated.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention : P280 - Wear protective gloves.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P273 - Avoid release to the environment.
P261 - Avoid breathing dust or mist.
P264 - Wash thoroughly after handling.
P251 - Do not pierce or burn, even after use.

Response : P391 - Collect spillage.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

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

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Ingredients identification

information

**Storage** 

**Disposal** 

: Naphtha (petroleum), hydrotreated light and 2,5-bis(octyldithio)-1,3,4-thiadiazole

Supplemental label

elements

: Not applicable.

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BLUE TAC CHAIN LUBRICANT

## **SECTION 2: Hazards identification**

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Naphtha (petroleum), hydrotreated light	EC: 265-151-9 CAS: 64742-49-0 Index: 649-328-00-1	≥25 - ≤50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
Butene, homopolymer (products derived from either/or But-1-ene/But- 2-ene)	EC: 500-004-7 CAS: 9003-29-6	≥25 - ≤50	Asp. Tox. 1, H304 EUH066	-	[1]
propane	EC: 200-827-9 CAS: 74-98-6	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Liq.), H280	-	[2]
butane	EC: 203-448-7 CAS: 106-97-8	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Aquatic Chronic 2, H411	-	[1] [2]
heptane	EC: 205-563-8 CAS: 142-82-5 Index: 601-008-00-2	≤3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119456620-43 EC: 926-141-6 CAS: -	≤3	Asp. Tox. 1, H304	-	[1] [2]
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## **SECTION 3: Composition/information on ingredients**

petroleum process oil	-	≤1	Acute Tox. 3, H331	ATE [Inhalation (vapours)] = 3 mg/l	[1]
Amine Phosphate Compounds (NJTSR No. 800983-5011P)	EC: 269-119-5 CAS: 68187-67-7	<1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
2,5-bis(octyldithio) -1,3,4-thiadiazole	EC: 948-020-7 CAS: -	≤0.3	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 11 mg/	[1]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

## **SECTION 4: First aid measures**

## 4.1 Description of 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.

Ingestion

: Wash out mouth with water. Remove dentures if any. 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.

**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.

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## **SECTION 4: First aid measures**

## 4.2 Most important symptoms and effects, both acute and delayed

**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.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

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 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 combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

#### 5.3 Advice for firefighters

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

## 6.1 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 pressurised 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised 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".

## 6.2 Environmental precautions

: Avoid dispersal of spilt 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.

## 6.3 Methods and material 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 the 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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 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. Pressurised container: protect from sunlight and do not expose to temperature 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 vapour 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.

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## **SECTION 7: Handling and storage**

### 7.2 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. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### **Seveso Directive - Reporting thresholds**

## **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne
E2	200 tonne	500 tonne

## 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

### **Occupational exposure limits**

TRGS 900 OEL (Germany, 6/2022).  TWA: 1800 mg/m³ 8 hours.  PEAK: 7200 mg/m³ 15 minutes.  TWA: 1000 ppm 8 hours.  PEAK: 4000 ppm 15 minutes.  DFG MAC-values list (Germany, 7/2022).
TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³, 4 times per shift, 15 minutes.
TRGS 900 OEL (Germany, 6/2022).  TWA: 2400 mg/m³ 8 hours.  PEAK: 9600 mg/m³ 15 minutes.  TWA: 1000 ppm 8 hours.  PEAK: 4000 ppm 15 minutes.  DFG MAC-values list (Germany, 7/2022). [Butane (both isomers)]  TWA: 1000 ppm 8 hours.  PEAK: 4000 ppm, 4 times per shift, 15 minutes.  TWA: 2400 mg/m³ 8 hours.  PEAK: 9600 mg/m³, 4 times per shift, 15 minutes.
TRGS 900 OEL (Germany, 6/2022). [Heptane] TWA: 500 ppm 8 hours. PEAK: 500 ppm 15 minutes. TWA: 2100 mg/m³ 8 hours. PEAK: 2100 mg/m³ 15 minutes.  DFG MAC-values list (Germany, 7/2022). TWA: 500 ppm 8 hours. PEAK: 500 ppm, 4 times per shift, 15 minutes. TWA: 2100 mg/m³ 8 hours. PEAK: 2100 mg/m³ 4 times per shift, 15 minutes. TWA: 2100 mg/m³, 4 times per shift, 15 minutes.  DFG MAC-values list (Germany, 7/2022). [distillates]

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

cyclics, <2% aromatics	(petroleum), hydrotreated light (Aerosol)]
	TWA: 5 mg/m³ 8 hours. Form: respirable fraction
	PEAK: 20 mg/m³, 4 times per shift, 15 minutes. Form: respirable
	fraction
	DFG MAC-values list (Germany, 7/2022). [distillates
	(petroleum), hydrotreated light (vapour)]
	TWA: 350 mg/m <sup>3</sup> 8 hours. Form: vapour
	TWA: 50 ppm 8 hours. Form: vapour
	PEAK: 100 ppm, 4 times per shift, 15 minutes. Form: vapour
	PEAK: 700 mg/m³, 4 times per shift, 15 minutes. Form: vapour
	TRGS 900 OEL (Germany, 6/2022).
	1 , , , , ,
	TWA: 300 mg/m³ 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
heptane	DFG BEI-values list (Germany, 7/2022)
	BEI: 250 μg/l, heptane-2,5-dione [in urine]. Sampling time: end of exposure or end of shift.  TRGS 903 - BEI Values (Germany, 2/2022)
	BEI: 250 μg/l, heptane-2,5-dione [in urine]. Sampling time: end of exposure or end of shift.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Naphtha (petroleum), hydrotreated	DNEL	Long term	0.41 mg/m <sup>3</sup>	General	Systemic
light		Inhalation		population	
	DNEL	Long term	1.9 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	149 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	149 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	178.57 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	640 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	1286.4 mg/	Workers	Systemic
		Inhalation	m³		
heptane	DNEL	Long term Oral	149 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	149 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic

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

	DNEL	Inhalation Long term	bw/day 447 mg/m³ 2085 mg/ m³	population	Systemic Systemic
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#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

# 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **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.

Recommended: EN = European Standard (Norm) 166.

## **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.
  - > 8 hours (breakthrough time): Wear suitable gloves tested to EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. Recommended: nitrile rubber, 55 mm thickness.

#### **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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
  - Recommended: EN = European Standard (Norm) 340, EN = European Standard (Norm) 369, EN = European Standard (Norm) 465.

#### 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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Recommended: No personal respiratory protective equipment normally required. In case of inadequate ventilation wear respiratory protection. Use a properly fitted, airpurifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. EN = European Standard (Norm)149.

**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.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Aerosol.] Colour : Not available. Characteristic. Odour **Odour threshold** Not available. : Not available. Melting point/freezing point **Initial boiling point and** : Not available.

boiling range

**Flammability** : Not available. Lower and upper explosion : Not available.

limit

water

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

: Not available. **Auto-ignition temperature Decomposition temperature** Not available. pН : Not available.

**Viscosity** : Kinematic (40°C): 1500 mm<sup>2</sup>/s

Not available.

Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure Vanour Pressure at 20°C Vanour pressure at 50°C

	Vapou	vapour i ressure at 20 C			vapour pressure at 50 C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
propane	6300.51	840						

**Evaporation rate** : Not available.

**Relative density** 0.536

Vapour density Not available. Not available. **Explosive properties** : Not available. **Oxidising properties** 

**Particle characteristics** 

Median particle size : Not applicable.

9.2 Other information

**Heat of combustion** : 12.23 kJ/g

**Aerosol product** 

Type of aerosol : Spray

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## **SECTION 10: Stability and reactivity**

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

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

10.3 Possibility of hazardous reactions

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

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

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrotreated light	LC50 Inhalation Vapour	Rat	>5.2 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Butene, homopolymer (products derived from either/or But-1-ene/But-	LD50 Dermal	Rabbit	>10250 mg/kg	-
2-ene)				
	LD50 Oral	Rat	>34600 mg/kg	-
butane	LC50 Inhalation Vapour	Rat	658000 mg/m <sup>3</sup>	4 hours
heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
·	LC50 Inhalation Vapour	Rat	103 g/m³	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50 Dermal	Rabbit	>2000 mg/kg	-
_ / 0 0.101.1101.1100	LD50 Oral	Rat	>5000 mg/kg	-
petroleum process oil	LC50 Inhalation Vapour	Rat	>5 mg/l	4 hours
i i	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Amine Phosphate	LD50 Oral	Rat	300 mg/kg	-
Compounds (NJTSR No. 800983-5011P)				

**Conclusion/Summary**: Not available.

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
BLUE TAC CHAIN LUBRICANT	N/A	N/A	N/A	509.6	N/A
butane	N/A	N/A	N/A	658	N/A
heptane	N/A	N/A	48000	103	N/A
petroleum process oil	N/A	N/A	N/A	3	N/A
Amine Phosphate Compounds (NJTSR No. 800983-5011P)	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 11: Toxicological information**

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Naphtha (petroleum), hydrotreated light	Eyes - Mild irritant	Rabbit	-	10 milligrams	-

**Conclusion/Summary**: Not available.

**Sensitisation** 

Product/ingredient name	Route of exposure	Species	Result
petroleum process oil Amine Phosphate Compounds (NJTSR No. 800983-5011P)	skin skin	Guinea pig Mouse	Not sensitizing Sensitising

**Conclusion/Summary**: Not available.

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Amine Phosphate Compounds (NJTSR No. 800983-5011P)	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
,	OECD	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 487 In vitro Micronucleus Test	Experiment: In vitro Subject: Mammalian-Human	Negative

Conclusion/Summary

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

: Not available.

**Reproductive toxicity** 

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Amine Phosphate Compounds (NJTSR No. 800983-5011P)	-	-	-		Oral: 75 mg/kg	28 days

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated light heptane	Category 3 Category 3	-	Narcotic effects Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Butene, homopolymer (products derived from either/or But-1-ene/	
But-2-ene)	
heptane	ASPIRATION HAZARD - Category 1
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1

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## **SECTION 11: Toxicological information**

Information on likely routes : Not available.

of exposure

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.

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

**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 as well as 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

Product/ingredient name	Result	Species	Dose	Exposure
Amine Phosphate Compounds (NJTSR No. 800983-5011P)	Chronic NOAEL Oral	Rat	75 mg/kg	-

**Conclusion/Summary**: 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.

#### 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

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## **SECTION 11: Toxicological information**

Not available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Naphtha (petroleum), hydrotreated light	Acute EC50 1 to 10 mg/l	Algae	72 hours
	Acute EC50 1 to 10 mg/l	Daphnia	48 hours
	Acute LC50 1 to 10 mg/l	Fish	96 hours
Butene, homopolymer (products derived from either/or But-1-ene/But- 2-ene)	Acute EC50 >1000 mg/l	Daphnia	48 hours
,	Acute LC50 >1000 mg/l	Fish	96 hours
butane	EC50 7.71 to 19.37 mg/l	Algae	4 days
	LC50 24.11 to 147.54 mg/l	Fish	4 days
	Acute LC50 14.22 to 69.43 mg/l	Daphnia	48 hours
heptane	Acute EC50 1.5 mg/l	Daphnia	48 hours
	Acute LC50 375000 μg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Acute EC50 >1000 mg/l	Algae	72 hours
	Acute LC50 >1000 mg/l Fresh water	Daphnia	48 hours
petroleum process oil	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >10000 mg/l	Fish	96 hours
Amine Phosphate	Acute EC50 1.9 mg/l	Algae	72 hours
Compounds (NJTSR No. 800983-5011P)			
,	Acute EC50 6.8 mg/l	Daphnia	48 hours
	Acute LC50 18 mg/l	Fish	96 hours
	Acute NOEC 0.1 mg/l	Algae	72 hours
	Acute NOEC 3.9 mg/l	Daphnia	48 hours
	Acute NOEC 12 mg/l	Fish	96 hours

**Conclusion/Summary**: Not available.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	OECD 301F Ready Biodegradability - Manometric Respirometry	69 % - Readily - 28 days	-	-
Amine Phosphate Compounds (NJTSR No. 800983-5011P)	Test OECD 301B Ready Biodegradability - CO2 Evolution Test	9 % - Not readily - 28 days	-	-

**Conclusion/Summary**: Not available.

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## **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Naphtha (petroleum),	-	-	Inherent
hydrotreated light Butene, homopolymer			Not readily
(products derived from	-	-	Not readily
either/or But-1-ene/But-			
2-ene)			
Hydrocarbons, C11-C14, n-	-	-	Readily
alkanes, isoalkanes, cyclics,			
<2% aromatics			
petroleum process oil	-	-	Inherent
Amine Phosphate	-	-	Not readily
Compounds (NJTSR No.			
800983-5011P)			

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	High
Butene, homopolymer (products derived from either/or But-1-ene/But- 2-ene)	7.6 to 7.8	314 to 1882	High
butane	2.89	-	Low
heptane	4.66	552	High
petroleum process oil	>6	-	High

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

The generation of waste should be avoided or minimised 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.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

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## SECTION 13: Disposal considerations

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

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.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

<sup>- :</sup> Not applicable.

## **Additional information**

ADR/RID

: The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg. Limited quantity 1 L

**Special provisions** 190, 327, 625, 344

Tunnel code (D)

**ADN** 

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special provisions 190, 327, 625, 344

**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

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

**Substances of very high concern** 

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
BLUE TAC CHAIN LUBRICANT	≥90	3

Labelling : Not applicable.

**Other EU regulations** 

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

Aerosol dispensers

3



Extremely flammable

## **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category		
P3a		
E2		

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		distillates (petroleum), hydrotreated light (Aerosol)	К3В	-

Storage class (TRGS 510) : 2B Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

**Danger criteria** 

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## SECTION 15: Regulatory information

Category	Reference number
P3a	1.2.3.1
E2	1.3.2

Hazard class for water : 3

Registration number (UBA): Not available.

**Technical instruction on** : TA-Luft Class I - Number 5.2.5: 72.2% TA-Luft Number 5.2.5: 27.9-29.4% air quality control

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

**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.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

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

**Thailand** : Not determined. **Turkey** : Not determined.

**United States** All components are active or exempted.

: Not determined. **Viet Nam** 

15.2 Chemical safety

assessment

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

This product contains substances for which Chemical Safety Assessments are still

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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## **SECTION 16: Other information**

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229	On basis of test data
Skin Irrit. 2, H315	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurised container: may burst if
	heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

## Full text of classifications [CLP/GHS]

Acute Tox. 3 ACUTE TOXICITY - Category 3 Acute Tox. 4 **ACUTE TOXICITY - Category 4** Aerosol 1 **AEROSOLS - Category 1** Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Gas 1A FLAMMABLE GASES - Category 1A Flam. Lig. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Press. Gas (Comp.) GASES UNDER PRESSURE - Compressed gas Press. Gas (Lig.) GASES UNDER PRESSURE - Liquefied gas Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 Skin Sens. 1 SKIN SENSITISATION - Category 1A Skin Sens. 1A STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -Category 3

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## **SECTION 16: Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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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