



# SAFETY DATA SHEET

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

### 1.1. Product identifier

Trade name or designation of the mixture	Molyube Extreme Pressure Grease AC 1
Product code	301201
SDS number	6924
Registration number	-
Synonyms	Old product Code 23220; For Package Codes 301201XXXXXX
Issue date	05-November-2011
Version number	8,0
Revision date	26-June-2018
Supersedes date	23-August-2017

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

Identified uses	Multipurpose Grease
Uses advised against	None known.

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

#### Supplier

Company name	Calumet Branded Products, LLC
Address	Calumet International, Inc. Pa Monument Chemical BVBA Haven 1972, Ketenislaan 3 B-9130 Kallo (Kiedrecht) BE

#### Division

Telephone	+32 3 570 25 20
e-mail	technical@calumetspecialty.com
Contact person	Not available.

1.4. Emergency telephone number	CHEMTREC	1-703-527-3887
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	Not available.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

#### Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information	None.
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2.3. Other hazards	None known.
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Distillates (petroleum), hydrotreated heavy naphthenic	0 - < 100	64742-52-5 265-155-0	01-2119467170-45	649-465-00-7	
<b>Classification:</b>	-				L
Distillates (petroleum), hydrotreated heavy paraffinic	0 - < 100	64742-54-7 265-157-1	01-2119484627-25	649-467-00-8	
<b>Classification:</b>	-				L
White mineral oil (petroleum)	0 - < 100	8042-47-5 232-455-8	01-2119487078-27	-	
<b>Classification:</b>	Asp. Tox. 1;H304				
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )-	5 - < 10	54326-11-3 259-105-7	01-2120127786-48	-	
<b>Classification:</b>	-				
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic	5 - < 10	64742-65-0 265-169-7	01-2119471299-27	649-474-00-6	
<b>Classification:</b>	-				L

Other components below reportable levels 40 - < 50

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## SECTION 4: First aid measures

**General information** Not available.

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give liquid to an unconscious person.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Irritation of eyes and mucous membranes. Skin irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear suitable protective equipment. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** Not available.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8.

**For emergency responders** Not available.

**6.2. Environmental precautions** Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up** This product is miscible in water. Use water spray to reduce vapours or divert vapour cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Never return spills to original containers for re-use.

**6.4. Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup>	Mist.
	STEL	10 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m <sup>3</sup>	Mist.
	STEL	10 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m <sup>3</sup>	Mist.
	STEL	10 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m <sup>3</sup>	Mist.
	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m <sup>3</sup>
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup>
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m <sup>3</sup>
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m <sup>3</sup>
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m <sup>3</sup>

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1000 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	200 mg/m <sup>3</sup>	
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TLV	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TLV	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TLV	1 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TLV	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	TLV	1 mg/m <sup>3</sup>	Mist.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	2 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits Components**

Type	Value	Form	
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Mist.

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Respirable fraction.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	Ceiling	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	2 mg/m3	

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	1 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	1 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	1 mg/m3	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Inhalable fraction.

**Italy. Occupational Exposure Limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	1 mg/m3	Respirable fraction.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	1 mg/m3	

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TLV	1 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TLV	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.



**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	3 mg/m3	Fume and mist.
	TWA	15 ppm	Fume and mist.
		1 mg/m3 5 ppm	Fume and mist. Fume and mist.

**Spain. Occupational Exposure Limits Components**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values Components**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	1 mg/m3	Total dust.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

<b>Exposure guidelines</b>	Occupational Exposure Limits are not relevant to the current physical form of the product.
<b>8.2. Exposure controls</b>	
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
- <b>Hand protection</b>	Wear appropriate chemical resistant gloves.
- <b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
<b>Environmental exposure controls</b>	Environmental manager must be informed of all major releases.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	
<b>Physical state</b>	Not available.
<b>Form</b>	Liquid. Paste.
<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	343 °C (649,4 °F) estimated (Base Oil)
<b>Flash point</b>	214,0 °C (417,2 °F) Pensky-Martens Closed Cup (Base Oil)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	0,00001 hPa estimated
<b>Density</b>	880,00 kg/m <sup>3</sup>
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated (Base Oil)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	(Base Oil)
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.

## 9.2. Other information

<b>Dropping point</b>	239 °C (462,2 °F)
<b>Flash point class</b>	Combustible IIIB
<b>Kinematic viscosity</b>	220 cSt
<b>Kinematic viscosity temperature</b>	40 °C (104 °F)
<b>Percent volatile</b>	0,03 % estimated
<b>Specific gravity</b>	0,88
<b>VOC</b>	0,03 % estimated

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Strong oxidising agents. The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents.
<b>10.6. Hazardous decomposition products</b>	At thermal decomposition temperatures, carbon monoxide and carbon dioxide. No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
<b>Symptoms</b>	Irritation of eyes and mucous membranes. Skin irritation.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	No data available.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of this product.
<b>12.3. Bioaccumulative potential</b>	No data available.

<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not available.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### Authorisations

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

#### Other EU regulations

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

**Directive 94/33/EC on the protection of young people at work**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws  
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Follow national regulation for work with chemical agents.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16: Other information

<b>List of abbreviations</b>	Not available.
<b>References</b>	Not available.
<b>Information on evaluation method leading to the classification of mixture</b>	The classification for health and environmental hazards is derived by a combination of calculator methods and test data, if available.
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	H304 May be fatal if swallowed and enters airways.
<b>Revision information</b>	None.
<b>Training information</b>	Follow training instructions when handling this material.
<b>Disclaimer</b>	Calumet Branded Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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.