

## 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

### Liqui Moly GmbH

Chemwatch: **5395-37** Version No: **2.1.1.1** 

Safety Data Sheet according to WHMIS 2015 requirements

### Chemwatch Hazard Alert Code: 1

Issue Date: 14/04/2020 Print Date: 15/04/2020 S.GHS.CAN.EN

### **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L	
Synonyms Not Available	
Other means of identification Not Available	

### Recommended use of the chemical and restrictions on use

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Liqui Moly GmbH	
Address	Jerg-Wieland-Strasse 4 Ulm D-89081 Germany	
Telephone	+49 731 1420 0	
Fax	+49 731 1420 82	
Website	http://www.liqui-moly.com/	
Email	Not Available	

### **Emergency phone number**

Association / Organisation INFOTRAC		INFOTRAC
	Emergency telephone numbers	+1800 535 5053 (US, Canada & Mexico)
Other emergency telephone numbers +1 352 323 3500 (International)		+1 352 323 3500 (International)

### **SECTION 2 HAZARD(S) IDENTIFICATION**

### Classification of the substance or mixture

### NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

### CANADIAN WHMIS SYMBOLS



Classification Eye Irritation Category 2A, Skin Sensitizer Category 1

### Label elements

Hazard pictogram(s)



SIGNAL WORD

WARNING

### Hazard statement(s)

Chemwatch: **5395-37** Page **2** of **9** 

Version No: 2.1.1.1

### 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Issue Date: **14/04/2020**Print Date: **15/04/2020** 

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

### Physical and Health hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P261 Avoid breathing mist/vapours/spray.	
P272	Contaminated work clothing should not be allowed out of the workplace.

### Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	

### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
72623-87-1.	>70	lubricating oils, petroleum C20-50, hydrotreated neutral
64742-65-0.	1-5	paraffinic distillate, heavy, solvent-dewaxed (severe)
36878-20-3	<2	nonylated diphenylamines
Not Available	<2	bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines

### **SECTION 4 FIRST-AID MEASURES**

### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.  • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  • Seek medical attention without delay; if pain persists or recurs seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

Treat symptomatically.

- Fleavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- ▶ In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- ► High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

**NOTE:** Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

### **SECTION 5 FIRE-FIGHTING MEASURES**

### Extinguishing media

- Water spray or fog.
- Foam.
- ► Dry chemical powder.
- ► BCF (where regulations permit).

Chemwatch: 5395-37 Page 3 of 9 Issue Date: 14/04/2020 Version No: 2.1.1.1 Print Date: 15/04/2020

### 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Fire Incompatibility ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Special protective equipment and precautions for fire-fighters Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Fire Fighting  $\qquad \qquad \textbf{Prevent, by any means available, spillage from entering drains or water course. } \\$ ▶ Use water delivered as a fine spray to control fire and cool adjacent area. Combustible. ▶ Slight fire hazard when exposed to heat or flame. ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: Fire/Explosion Hazard carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.

Foaming may cause overflow of containers and may result in possible fire.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt.  Remove all ignition sources.  Clean up all spills immediately.  Avoid breathing vapours and contact with skin and eyes.  Control personal contact with the substance, by using protective equipment.
Major Spills	Slippery when spilt.  Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

P	recautions	for	safe	handling
	recautions	101	Jaic	nanuning

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.  • Avoid reaction with oxidising agents

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

## **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist - mineral	5 mg/m3	10 mg/m3	Not Available	TLV Basis: lung. As sampled by method that does not collect vapor.

Page 4 of 9 Chemwatch: 5395-37 Issue Date: 14/04/2020 Version No: 2.1.1.1 Print Date: 15/04/2020

## 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Canada - Alberta Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - Manitoba Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Not Available	5 mg/m3	Not Available	Not TLV® Basis: URT irr			T irr	
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	lubricating oils, petroleum C20-50, hydrotreated neutral	Mineral oil (mist)	5 mg/m3	10 mg/m3	Not Ava	ilable	le Not Available		
Canada - Northwest Territories Occupational Exposure Limits (English)	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - British Columbia Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist - mineral, severely refined	1 mg/m3	Not Available	Not Ava	ilable	Not Available		
Canada - Prince Edward Island Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Mineral oil, excluding metal working fluids - Pure, highly and severely refined	5 mg/m3	Not Available	Not Ava	ilable	TLV® Basis: UR	T irr	
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - Nova Scotia Occupational Exposure Limits	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist - mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	TLV Basis: lung. As sampled by method that does not collect vapor.		
Canada - Alberta Occupational Exposure Limits	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	e Not Available		
Canada - Manitoba Occupational Exposure Limits	paraffinic distillate, heavy, solvent-dewaxed (severe)	Not Available	5 mg/m3	Not Available	Not Ava	ilable	TLV® Basis: URT irr		
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	paraffinic distillate, heavy, solvent-dewaxed (severe)	Mineral oil (mist)	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - Northwest Territories Occupational Exposure Limits (English)	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Ava	ilable	Not Available		
Canada - British Columbia Occupational Exposure Limits	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist - mineral, severely refined	1 mg/m3	Not Available	Not Ava	ilable	Not Available		
Canada - Prince Edward Island Occupational Exposure Limits	paraffinic distillate, heavy, solvent-dewaxed (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined	5 mg/m3	Not Available	Not Ava				
MERGENCY LIMITS									
ngredient	Material name	<i>(</i> , , , , , , , , , , , , , , , , , , ,				TEEL-1		TEEL-3	
ubricating oils, petroleum 220-50, hydrotreated neutral		raffin oil; Deobase, deodorized; heavy p 3, 64741-88-4, 8042-47-5, 8012-95-1; 6		avy naphthenic)	);	140 mg/m3	1,500 mg/m3	8,900 mg/m3	
paraffinic distillate, heavy, solvent-dewaxed (severe)	Pump oil; (petroleum distillate:	s, solvent de-waxed heavy paraffinic				140 mg/m3	1,500 mg/m3	8,900 mg/m3	
ngredient	Original IDLH		Revise	ed IDLH					
ubricating oils, petroleum C20-50, hydrotreated neutral	2,500 mg/m3		Not Av	ailable					
paraffinic distillate, heavy, solvent-dewaxed (severe)	2,500 mg/m3		Not Av	Not Available					
nonylated diphenylamines	Not Available		Not Av	ailable					
ois(2-methylpentan- -yl)dithiophosphoric acid/ mines	Not Available		Not Av	ailable					
OCCUPATIONAL EXPOSURE BA									
ngredient	Occupational Exposure Ban	nd Rating	Occu	pational Expo	sure E	Band Limi	it		
ois(2-methylpentan- 2-yl)dithiophosphoric acid/ amines	E		≤ 0.0	1 mg/m³					
Notes:		ng is a process of assigning chemicals in ociated with exposure. The output of this		-				-	

Version No: **2.1.1.1** 

### 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Issue Date: **14/04/2020**Print Date: **15/04/2020** 

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Personal protection









### Eye and face protection

- ► Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

#### See Hand protection below

- ► Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

#### NOTE:

- ► The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Hands/feet protection Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

#### **Body protection**

See Other protection below

#### Other protection

- Overalls.P.V.C. apron.
- ► Barrier cream.

### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-PAPR-2 P2 ^

### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Brown liquid with characteristic odour; not miscible with water.				
Physical state	Liquid	Relative density (Water = 1)	0.855		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	Not Available	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	-42	Viscosity (cSt)	56, 9.5 @ 100C		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	230	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not Applicable	Oxidising properties	Not Available		
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available		

Chemwatch: **5395-37** Page **6** of **9** 

Version No: 2.1.1.1 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Page 6 of 9 Issue Date: 14/04/2020

FIGE AR OIL (GL3+) SAE 75W-80 11 Print Date: 15/04/2020

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Inhaled	Inhalation hazard is increased at higher temperatures. Not normally a hazard due to non-volatile nature of product Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.				
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.				
Skin Contact	dermatitis. The material is unlikely to produce an irritant of Open cuts, abraded or irritated skin should not be exposed. The material may accentuate any pre-existing dermatitis Entry into the blood-stream, through, for example, cuts, a	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.  Open cuts, abraded or irritated skin should not be exposed to this material  The material may accentuate any pre-existing dermatitis condition  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	This material can cause eye irritation and damage in som	e persons.			
Chronic	Substance accumulation, in the human body, may occur	Insitisation reaction in some persons compared to the general population. and may cause some concern following repeated or long-term occupational exposure. The can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts			
22080 HIGH PERFORMANCE	TOXICITY	IRRITATION			
GEAR OIL (GL3+) SAE 75W-80 1L	Not Available	Not Available			
	TOXICITY	IRRITATION			
lubricating oils, petroleum	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
C20-50, hydrotreated neutral	Inhalation (rat) LC50: >5.3 mg/l4 h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>			
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>				
	TOXICITY	IRRITATION			
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
solvent-dewaxed (severe)	Inhalation (rat) LC50: >5.3 mg/l4 h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>			
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>				
	TOXICITY	IRRITATION			
nonylated diphenylamines	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>			
bis(2-methylpentan-	TOXICITY	IRRITATION			
2-yl)dithiophosphoric acid/ amines	Not Available	Not Available			
Legend:	Value obtained from Europe ECHA Registered Substa	nces - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise			

## PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED

(SEVERE)

Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.

The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell.

The substance is classified by IARC as Group 3:

**NOT** classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Chemwatch: **5395-37** Page **7** of **9** 

22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Issue Date: **14/04/2020**Print Date: **15/04/2020** 

#### NONYLATED DIPHENYLAMINES

Version No: 2.1.1.1

Heating of substituted diphenylamines may generate vapours which can irritate the eyes and airways. Drying of skin and mucous membranes leading to irritation may occur with prolonged or repeated contact. Overexposure may cause skin and airway irritation with dizziness and flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration.

#### BIS(2-METHYLPENTAN-2-YL)DITHIOPHOSPHORIC ACID/ AMINES

LUBRICATING OILS.

Thee rat oral LD50 is greater than 10 ml/kg bw. No mortality occurred. No signs of systemic toxicity, or behavioral changes were reported during the study, and no abnormalities were noted at necropsy. In a second study this substance shows evidence of toxicity when tested in accordance with OECD 401. The dermal route for acute toxicity is appropriate if the physicochemical properties suggest there is potential for a significant rate of absorption through the skin. The scientific literature regarding dermal toxicity states that for those substances with a log Kow greater than 5 there is very limited potential for dermal absorption (e.g., 10% absorption) (Annals of Occupatinoal Hygiene, 47(8):641-652, 2003). The test material has a Log Kow greater than 7.1 (small portion < 0.3) thereby demonstrating that it has very limited dermal absorption potential. In contrast, oral absorption can be relatively fast due to contact surface areas in the GI tract resulting in a peak concentration in the body, and GI tract has been regarded as the route resulting in higher bioavailability. Skin sensitisation: EC3 value was determined to be 9.39%. Per the CLP guidance, substances are to be classified as skin sensitization 1A when the EC3 value is less than 2% and are to be classified as skin sensitization 1B when the EC3 value is greater than 2%. Repeat dose toxicity: Oral administration of the test substance to rats by gavage in accordance with OECD Test Guideline 407 (1995) produces treatment related microscopic changes in the adrenal glands of the male and female rats and kidneys of the male rats of the 150 and 500 mg/kg/day groups. The adrenal gland changes are accompanied by an increase in adrenal weight only at the high doses level. The male kidney effects are accompanied by an increase in hyaline droplets which is consistent with male rat species specific effect resulting from the excessive accumulation of a2-microglobulin in renal proximal tubular epithelial cells. Microscopic changes also are present in the stomach of the male and female rats of the 500 mg/kg/day group and these changes were possibly treatment related. \* REACh Dossier

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important.

 $The \ materials \ included \ in \ the \ Lubricating \ Base \ Oils \ category \ are \ related \ from \ both \ process \ and \ physical-chemical \ perspectives;$ 

The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since:

- The adverse effects of these materials are associated with undesirable components, and
- The levels of the undesirable components are inversely related to the degree of processing;
- Distillate base oils receiving the same degree or extent of processing will have similar toxicities;
- · The potential toxicity of residual base oils is independent of the degree of processing the oil receives.
- The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing.

PETROLEUM C20-50,
HYDROTREATED NEUTRAL &
PARAFFINIC DISTILLATE,
HEAVY, SOLVENT-DEWAXED
(SEVERE)

Which is the part of the part

For highly and severely refined distillate base oils:

In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative.

PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & BIS(2-METHYLPENTAN-2-YL)DITHIOPHOSPHORIC ACID/ AMINES

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	X
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	X
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X - Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Not Available	TEST DURATION (HR)  Not Available	SPECIES  Not Available	VALUE Not Available	Not Available
ENDPOINT LC50 EC50	TEST DURATION (HR) 96 48	SPECIES Fish Crustacea	VALUE >100mg/L >10-mg/L	SOURCE 2 2
NOEC	504	Crustacea	>1mg/L	SOURCE
LC50	96	Fish	>100mg/L	2
EC50	96	Algae or other aquatic plants	>1000mg/L	1
	Not Available  ENDPOINT LC50 EC50 NOEC  ENDPOINT LC50 EC50	Not Available         Not Available           ENDPOINT         TEST DURATION (HR)           LC50         96           EC50         48           NOEC         504           ENDPOINT         TEST DURATION (HR)           LC50         96           EC50         48           EC50         96	Not Available         Not Available         Not Available           ENDPOINT         TEST DURATION (HR)         SPECIES           LC50         96         Fish           EC50         48         Crustacea           NOEC         504         Crustacea           ENDPOINT         TEST DURATION (HR)         SPECIES           LC50         96         Fish           EC50         48         Crustacea           EC50         96         Algae or other aquatic plants	Not Available         Not Available         Not Available         Not Available           ENDPOINT         TEST DURATION (HR)         SPECIES         VALUE           LC50         96         Fish         >100mg/L           EC50         48         Crustacea         >10-mg/L           NOEC         504         Crustacea         >1mg/L           ENDPOINT         TEST DURATION (HR)         SPECIES         VALUE           LC50         96         Fish         >100mg/L           EC50         48         Crustacea         >10-mg/L           EC50         96         Algae or other aquatic plants         >1000mg/L

Version No: **2.1.1.1** 

### 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Issue Date: **14/04/2020**Print Date: **15/04/2020** 

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>100mg/L	2
nonylated diphenylamines	EC50	48	Crustacea	51mg/L	2
	EC50	72	Algae or other aquatic plants	>100mg/L	2
	NOEC	96	Crustacea	<10mg/L	1
bis(2-methylpentan-	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
2-yl)dithiophosphoric acid/ amines	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	V3.12 (QSAR) -	IUCLID Toxicity Data 2. Europe ECHA Registere     Aquatic Toxicity Data (Estimated) 4. US EPA, Eco     Apply - Rioconcentration Data 7. METI (Japan) - R	tox database - Aquatic Toxicity Data 5. ECETOC	,	

### for lubricating oil base stocks:

Vapor Pressure Vapor pressures of lubricating base oils are reported to be negligible. In one study, the experimentally measured vapour pressure of a solvent-dewaxed heavy paraffinic distillate base oil was 1.7 x 10exp-4 Pa. Since base oils are mixtures of C15 to C50 paraffinic, naphthenic, and aromatic hydrocarbon isomers, representative components of those structures were selected to calculate a range of vapor pressures. The estimated vapor pressure values for these selected components of base oils ranged from 4.5 x 10exp-1 Pa to 2 x 10exp-13Pa.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

- ► DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging disposal

  Where in doubt contact the responsible authority.
  - Recycle wherever possible or consult manufacturer for recycling options.
  - Consult State Land Waste Authority for disposal.
  - ▶ Bury or incinerate residue at an approved site.
  - Recycle containers if possible, or dispose of in an authorised landfill.

## **SECTION 14 TRANSPORT INFORMATION**

### **Labels Required**

Marine Pollutant NO

Land transport (TDG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## **SECTION 15 REGULATORY INFORMATION**

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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

### LUBRICATING OILS, PETROLEUM C20-50, HYDROTREATED NEUTRAL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances

Chemical Footprint Project - Chemicals of High Concern List

Canada Domestic Substances List (DSL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Chemwatch: 5395-37 Page 9 of 9 Issue Date: 14/04/2020 Version No: 2.1.1.1

### 22080 HIGH PERFORMANCE GEAR OIL (GL3+) SAE 75W-80 1L

Print Date: 15/04/2020

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

Canada Forensic Identification Services Chemical Carcinogenicity Evaluation - Table 1

- Chemicals Considered for Assessment

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

#### NONYLATED DIPHENYLAMINES IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

### BIS(2-METHYLPENTAN-2-YL)DITHIOPHOSPHORIC ACID/ AMINES IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

#### **National Inventory Status**

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National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (lubricating oils, petroleum C20-50, hydrotreated neutral; paraffinic distillate, heavy, solvent-dewaxed (severe); nonylated diphenylamines)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (lubricating oils, petroleum C20-50, hydrotreated neutral)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (lubricating oils, petroleum C20-50, hydrotreated neutral; nonylated diphenylamines)
Vietnam - NCI	Yes
Russia - ARIPS	No (lubricating oils, petroleum C20-50, hydrotreated neutral)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

Revision Date	14/04/2020
Initial Date	14/04/2020

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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