

# 20012 GEAR OIL 75W-90 GL4+ 1L

# Liqui Moly GmbH

Chemwatch: **11-52100** Version No: **3.1.1.1** 

Safety Data Sheet according to WHMIS 2015 requirements

#### Chemwatch Hazard Alert Code: 2

Issue Date: **06/06/2018** Print Date: **06/06/2018** S.GHS.CAN.EN

#### **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	20012 GEAR OIL 75W-90 GL4+ 1L
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses

Use according to manufacturer's directions.

Lubricant.

#### 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	Not Available
Email	Not Available

#### **Emergency phone number**

Association / Organisation	INFOTRAC
Emergency telephone numbers	+1800 535 5053 (US & Canada)
Other emergency telephone numbers	+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 Skin Sensitizer Category 1, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3

# Label elements

Hazard pictogram(s)



SIGNAL WORD

WARNING

# Hazard statement(s)

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H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

#### Hazard(s) not otherwise specified

Not Applicable

#### Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

#### Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

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

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name			
68937-96-2	10-20	di-tert-butyl polysulfides			
Not Available	5-15	mineral oil			
Not Available	1-10	bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines			
Not Available	0.05-0.5	dimercaptothiadiazole derivative			

# **SECTION 4 FIRST-AID MEASURES**

# Description of first aid measures

•	
Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, 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

- ▶ Heavy 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

- Foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

# Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

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Special protective equipment and precautions for fire-fighters

# Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- ▶ 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)

sulfur oxides (SOx)

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

- ► 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** 

# 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**

#### Precautions for safe handling

Safa	handling

- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- · Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps

Other information

- Store in original containers. Keep containers securely sealed
- No smoking, naked lights or ignition sources.
- ► Store in a cool, dry, well-ventilated area.

#### Conditions for safe storage, including any incompatibilities

Suitable container

- ► Metal can or drum
- Packaging as recommended by manufacturer.
- ► Check all containers are clearly labelled and free from leaks.

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)

#### INCREDIENT DATA

1						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	mineral oil	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	mineral oil	Oil mist - mineral	5 mg/m3	10 mg/m3	Not Available	TLV Basis: lung. As sampled by method that does not collect vapor.

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Canada - Alberta Occupational Exposure Limits	mineral oil	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	mineral oil	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	mineral oil	Not Available	5 mg/m3	Not Available	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	mineral oil	Not Available	Not Available	Not Available	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	mineral oil	Mineral oil (mist)	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits (English)	mineral oil	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - British Columbia Occupational Exposure Limits	mineral oil	Oil mist - mineral, mildly refined	0.2 mg/m3	Not Available	Not Available	Not Available
Canada - British Columbia Occupational Exposure Limits	mineral oil	Oil mist - mineral, severely refined	1 mg/m3	Not Available	Not Available	Not Available
Canada - Prince Edward Island Occupational Exposure Limits	mineral oil	Mineral oil, excluding metal working fluids - Pure, highly and severely refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
Canada - Prince Edward Island Occupational Exposure Limits	mineral oil	Mineral oil, excluding metal working fluids - Poorly and mildly refined	Not Available	Not Available	Not Available	TLV® Basis: URT irr

#### **EMERGENCY LIMITS**

Ingredient	Material name TEEL-1		TEEL-2	TEEL-3	
20012 GEAR OIL 75W-90 GL4+ 1L	Not Available Not Available		Not Available	Not Available	
Ingredient	Original IDLH		Revised IDLH		
di-tert-butyl polysulfides	Not Available		Not Available		
mineral oil	2500 mg/m3		Not Available		
bis(2-methylpentan- 2-yl)dithiophosphoric acid/ amines	Not Available		Not Available		
dimercaptothiadiazole derivative	Not Available		Not Available		

#### **Exposure controls**

# 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 A-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.

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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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

<sup>^ -</sup> 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.

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

#### Information on basic physical and chemical properties

Appearance	Yellow colour liquid with characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.85
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	82, 14.3 @100C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	200	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
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

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

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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

<del>-</del>	
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
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	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	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.

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		L	
20012 GEAR OIL 75W-90 GL4+	TOXICITY	IRRITATION	
1L	Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available	
	TOXICITY	IRRITATION	
di-tert-butyl polysulfides	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Eye (rabbit): sligi	ht;y irritating
		Skin (rabbit): slig	ht;y irritating
المالية المدونية	TOXICITY	IRRITATION	
mineral oil	Not Available	Not Available	
bis(2-methylpentan-	TOXICITY	IRRITATION	
2-yl)dithiophosphoric acid/ amines	Not Available	Not Available	
dimercaptothiadiazole	TOXICITY	IRRITATION	
derivative	Not Available	Not Available	
Legend:	Nalue obtained from Europe ECHA Registered Substated at a extracted from RTECS - Register of Toxic Effect of control of the state		from manufacturer's SDS. Unless otherwise specified
DI-TERT-BUTYL POLYSULFIDES	to cause genetic damage or developmental toxicity.	Guinea pig maximization test: not sensitising The material seems to be a sensitiser at challenge but not at rechallenge Ames test: negative with and	
MINERAL OIL	Toxicity and Irritation data for petroleum-based mineral oils are related to chemical components and vary as does the composition and source of the original crude.  A small but definite risk of occupational skin cancer occurs in workers exposed to persistent skin contamination by oils over a period of years. This risk has been attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typified by benz[a]pyrene).  Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.		
BIS(2-METHYLPENTAN- 2-YL)DITHIOPHOSPHORIC ACID/ AMINES	No significant acute toxicological data identified in literature search.		
DIMERCAPTOTHIADIAZOLE DERIVATIVE	The skin irritation potential of this substance was evaluated in rabbits. The animals in this study also were used to evaluated the eye irritation potential of this substance. Prior to administration to the eye, a 0.5 ml portion of the test material was applied to the intact shaved skin of two rabbits and covered with gauze patched heald in place with adhesive tape and wrapped with a rubber dental dam. After 4 hours the wrapping was removed, and the test material was removed. The eye irritation potential of the test substance was evaluated in rabbits. A dose of 0.1 ml of the test material was instilled in the right eyes of six healthy young adult albino rabbits. The untreated left eyes served as controls. The treated eyes were examined at 1, 2, 3, 4, and 7 days following instillation of the test material in accordance with the Draize method. The substance was considered a weak sensitizer. In accordance with EU CLP Regulation No. 1272/2008, classification as a sensitizer is required for this substance. Repeat Dose toxicity: Under the conditions of this screening study, the NOAEL for systemic toxicity was 100 mg/kg/day based on effects on organ weights (lower thymus gland weights at =200 mg/kg/day, lower spleen and heart weights at = 500 mg/kg/day, lower brain weight at 1000 mg/kg/day, and higher liver and thyroid gland weights at =500 mg/kg/day) and the presence of test item-related microscopic findings at =200 mg/kg/day. The microscopic findings were still present at the post-treatment phase necropsy, however, at lesser severity. Genetic toxicity: in vitro The test item caused a visible reduction in the growth of the bacterial background lawns of all of the tester strains initially from 500 ug/plate both with and without metabolic activation (S9-mix). The test item was tested up to the maximum recommended dose level of 5000 ug/plate or the toxic limit depending on bacterial strain type and presence or absence of S9-mix. No toxicologically significant increases in the frequency of revertant colonies were recorde		
DI-TERT-BUTYL POLYSULFIDES & BIS(2- METHYLPENTAN- 2-YL)DITHIOPHOSPHORIC ACID/ AMINES & DIMERCAPTOTHIADIAZOLE DERIVATIVE	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.		
Acute Toxicity	×	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0
			Data available but does not fill the criteria for classification

# **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity					
20012 GEAR OIL 75W-90 GL4+ 1L	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE

O – Data Not Available to make classification

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	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>0.088mg/L	2
di-tert-butyl polysulfides	EC50	48	Crustacea	>1000mg/L	1
	EC50	72	Algae or other aquatic plants	0.299mg/L	2
	NOEC	96	Fish	>=0.088mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
mineral oil Not Avail	Not Available	Not Available	Not Available	Not Available	Not Availabl
bis(2-methylpentan-	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOUR
2-yl)dithiophosphoric acid/ amines	Not Available	Not Available	Not Available	Not Available	Not Availabl
dimercaptothiadiazole derivative	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	Not Available	Not Available	Not Available	Not Available	Not Availabl

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

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

Product / Packaging disposal

- ▶ 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.
- ▶ 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** 

Land transport (DOT): 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

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#### **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.

#### DI-TERT-BUTYL POLYSULFIDES(68937-96-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances Canada Domestic Substances List (DSL) MINERAL OIL(NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS Canada - Northwest Territories Occupational Exposure Limits (English) Canada - Quebec Permissible Exposure Values for Airborne Contaminants (French)

Canada - Alberta Occupational Exposure Limits Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits Canada - Saskatchewan Occupational Health and Safety Regulations - Designated Chemical Canada - British Columbia Occupational Exposure Limits Canada - Nova Scotia Occupational Exposure Limits Substances Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances Canada - Prince Edward Island Occupational Exposure Limits

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Canada - Prince Edward Island Occupational Exposure Limits - Carcinogens Monographs

#### BIS(2-METHYLPENTAN-2-YL)DITHIOPHOSPHORIC ACID/ AMINES(NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

#### DIMERCAPTOTHIADIAZOLE DERIVATIVE(NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

National Inventory	Status
Australia - AICS	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Canada - DSL	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Canada - NDSL	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil; di-tert-butyl polysulfides)
China - IECSC	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Europe - EINEC / ELINCS / NLP	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Japan - ENCS	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Korea - KECI	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
New Zealand - NZIoC	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Philippines - PICCS	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
USA - TSCA	N (bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines; dimercaptothiadiazole derivative; mineral oil)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

Revision Date	06/06/2018
Initial Date	04/06/2018

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
di-tert-butyl polysulfides	68937-96-2, 1021171-50-5

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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