

# 20086 MOTORBIKE GEAR OIL 75W-90 1L

Liqui Moly GmbH

Chemwatch: 52-8786
Version No: 2.1.1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **07/08/2015** Print Date: **09/12/2016** S.GHS.USA.EN

### **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	20086 MOTORBIKE GEAR OIL 75W-90 1L
Synonyms	Item No. 20086
Other means of identification	Not Available

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

Relevant identified uses

Use according to manufacturer's directions.

Gear 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

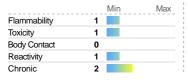
# Emergency phone number

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

### CHEMWATCH HAZARD RATINGS



0 = Minimum 1 = Low 2 = Moderate 3 = High



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)

Classification

Skin Sensitizer Category 1\*

### Label elements

GHS label elements



SIGNAL WORD

WARNING

# Hazard statement(s)

H317 May cause an allergic skin reaction.\*

### Hazard(s) not otherwise specified

Not Applicable

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# Precautionary statement(s) Prevention

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

### Precautionary statement(s) Response

P363	Nash contaminated clothing before reuse.	
P302+P352	N SKIN: Wash with plenty of soap and water.	
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 in accordance with local regulations.

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

See section below for composition of Mixtures

### **Mixtures**

CAS No	%[weight]	Name		
157707-86-3	40-60	1-decene, trimers, hydrogenated		
64742-55-8.	5-15	araffinic distillate, light, hydrotreated (severe)		
68937-96-2	1-5	-tert-butyl polysulfides		
Not Available	1-<2.5	reaction product of bis(4-methylpentan-2-yl)dithiophosphoric acid		
		with phosphorus oxide, propylene oxide and amines, C12-14		
		alkyl (branched)		
		base oil as		
Not avail.	1-2.5	mineral oil		

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### **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 or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

# Most important symptoms and effects, both acute and delayed

See Section 11

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

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should

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- ▶ be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorm and Barceloux: Medical Toxicology]

### **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

### 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.

### , ,

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- 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 furnes of carbon monoxide (CO).

### Combustion products include:

### Fire/Explosion Hazard

carbon dioxide (CO2) nitrogen oxides (NOx)

phosphorus oxides (POx)

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

- Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ► DO NOT allow clothing wet with material to stay in contact with skin
- ▶ Electrostatic discharge may be generated during pumping this may result in fire.
- ► Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- ► Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec="" until="" fill="" pipe="" submerged="" to="" twice="" its="" diameter,="" then=""><< 7=""><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">><< 7="">>< 7="">><< 7="">><< 7="">><< 7="">><< 7="">>< 7="">><< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7="">>< 7=
- Safe handling
- Avoid splash filling.
- Do NOT use compressed air for filling discharging or handling operations.
   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.

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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)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	paraffinic distillate, light, hydrotreated (severe)	Oil mist, mineral		Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffinic distillate, light, hydrotreated (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined / Mineral oil, excluding metal working fluids - Poorly and mildly refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	paraffinic distillate, light, hydrotreated (severe)	Heavy mineral oil mist, Paraffin oil mist, White mineral oil mist	5 mg/m3	10 mg/m3	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	mineral oil	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	mineral oil	Mineral oil, excluding metal working fluids - Pure, highly and severely refined / Mineral oil, excluding metal working fluids - Poorly and mildly refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	mineral oil	Heavy mineral oil mist, Paraffin oil mist, White mineral oil mist	5 mg/m3	10 mg/m3	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
20086 MOTORBIKE GEAR OIL 75W-90 1L	Not Available	Not Available	Not Available	Not Available
Ingredient Original IDLH Revised IDLH				
mgreatent	Original IDEIT	TOTOGUE DET		

Ingredient	Original IDLH	Revised IDLH
1-decene, trimers, hydrogenated	Not Available	Not Available
paraffinic distillate, light, hydrotreated (severe)	Not Available	Not Available
di-tert-butyl polysulfides	Not Available	Not Available
reaction product of bis(4- methylpentan- 2-yl)dithiophosphoric acid	Not Available	Not Available
mineral oil	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









- ► Safety glasses with side shields
- Eye and face protection
- 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.

# Hands/feet protection

• Wear safety footwear or safety gumboots, e.g. Rubber
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

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	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.
Thermal hazards	Not Available

### 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. 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.		
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Physical state	Liquid	Relative density (Water = 1)	0.865-0.87
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
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	184-190	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**

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 of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the

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	individual.  Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	The liquid may be miscible 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.		
Eye	Although the liquid is not thought to be an irritant (as classified by tearing or conjunctival redness (as with windburn).	by EC Directives), direct contact with the eye may produce transient discomfort characterised	
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.  Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.		
20086 MOTORBIKE GEAR OIL 75W-90 1L	TOXICITY  Not Available	IRRITATION  Not Available	
1-decene, trimers, hydrogenated	TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 0.9 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 1.4 mg/l/4hr <sup>[1]</sup>	IRRITATION  Not Available	
paraffinic distillate, light, hydrotreated (severe)	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> TOXICITY  Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 3.9 mg/L/4hr <sup>[2]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	IRRITATION  Not Available	
di-tert-butyl polysulfides	TOXICITY Oral (rat) LD50: 6500 mg/kg <sup>[1]</sup>	IRRITATION  Eye (rabbit): slight;y irritating  Skin (rabbit): slight;y irritating	
mineral oil	TOXICITY  Not Available	IRRITATION  Not Available	
Legend:	Value obtained from Europe ECHA Registered Substances - extracted from RTECS - Register of Toxic Effect of chemical Su	Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data ibstances	
PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)	The potential toxicity of a specific distillate base oil is inversely report to the second of the se	ated to the degree of processing; brocessing will have similar toxicities; the degree of processing the oil receives. base oils is inversely related to the degree of processing. It levels of undesirable components, have the largest variation of hydrocarbon molecules and ctivities. Highly and severely refined distillate base oils are produced from unrefined and mildly its.  It weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal we varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation.	
DI-TERT-BUTYL POLYSULFIDES	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.  For di-tertiary-(C9-12) alkyl polysulfides: existing information shows that these substances show a low level of toxicity to toxicity. They have not been shown 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 without		
MINERAL OIL	metabolic activation * IUCLID Data  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).		

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	Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.		
1-DECENE, TRIMERS, HYDROGENATED & PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)	No significant acute toxicological data identified in literature search.		
Acute Toxicity	0	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

Legend:

🗶 – Data available but does not fill the criteria for classification

Data required to make classification available

○ – Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
1-decene, trimers, hydrogenated	LC50	96	Fish	0.00297mg/L	3
paraffinic distillate, light, hydrotreated (severe)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, light, hydrotreated (severe)	EC50	48	Crustacea	>10000mg/L	1
paraffinic distillate, light, hydrotreated (severe)	NOEC	504	Crustacea	>1mg/L	1
di-tert-butyl polysulfides	LC50	96	Fish	>0.088mg/L	2
di-tert-butyl polysulfides	EC50	48	Crustacea	>1000mg/L	1
di-tert-butyl polysulfides	EC50	72	Algae or other aquatic plants	0.299mg/L	2
di-tert-butyl polysulfides	EC50	72	Algae or other aquatic plants	0.304mg/L	2
di-tert-butyl polysulfides	NOEC	96	Fish	>=0.088mg/L	2

Legend:

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

### DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1-decene, trimers, hydrogenated	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
1-decene, trimers, hydrogenated	LOW (LogKOW = 15.0744)

# Mobility in soil

Ingredient	Mobility
1-decene, trimers, hydrogenated	LOW (KOC = 357700000)

### **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 Where in doubt contact the responsible authority. disposal
  - ▶ 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.

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### **SECTION 14 TRANSPORT INFORMATION**

### **Labels Required**

**Marine Pollutant** 

NO

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

### **SECTION 15 REGULATORY INFORMATION**

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

### 1-DECENE, TRIMERS, HYDROGENATED(157707-86-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### PARAFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)(64742-55-8.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Proposition 65 - Carcinogens	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Idaho - Limits for Air Contaminants	US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### MINERAL OIL(NOT AVAIL.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Alaska Limits for Air Contaminants	Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California Proposition 65 - Carcinogens	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV)
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US National Toxicology Program (NTP) 13th Report Part A Known to be Human Carcinogens
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

### **Federal Regulations**

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	No
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

### State Regulations

### US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

### US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Soots, tars, and mineral oils (untreated and mildly treated oils and used engine oils) Listed

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20086 MOTORBIKE GEAR OIL 75W-90 1L

National Inventory	Status
Australia - AICS	N (1-decene, trimers, hydrogenated; mineral oil)
Canada - DSL	N (1-decene, trimers, hydrogenated; mineral oil)
Canada - NDSL	N (mineral oil; di-tert-butyl polysulfides; paraffinic distillate, light, hydrotreated (severe))
China - IECSC	N (mineral oil)
Europe - EINEC / ELINCS / NLP	N (mineral oil)
Japan - ENCS	N (1-decene, trimers, hydrogenated; mineral oil)
Korea - KECI	N (mineral oil)
New Zealand - NZIoC	N (mineral oil)
Philippines - PICCS	N (1-decene, trimers, hydrogenated; mineral oil)
USA - TSCA	N (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**

### Other information

### Ingredients with multiple cas numbers

Name	CAS No
1-decene, trimers, hydrogenated	157707-86-3, 638-68-6
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.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

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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