

# LIQUI MOLY Australia Pty Limited

## Chemwatch: 10-24817

Version No: 3.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

## Chemwatch Hazard Alert Code: 0

Issue Date: 01/11/2019 Print Date: 15/12/2021 S.GHS.AUS.EN

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

Prod	luct	Ider	ntifier

Product name	3821 Motorbike Gear Oil 80W-90
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Use according to manufacturer's directions.
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### Details of the supplier of the safety data sheet

Registered company name	LIQUI MOLY Australia Pty Limited
Address	Suite 106, 26-32 Pirrama Road Pyrmont NSW 2009 Australia
Telephone	1300 318 961
Fax	Not Available
Website	www.liqui-moly.com.au
Email	Not Available

#### Emergency telephone number

Association / Organisation	LIQUI MOLY Australia Pty Limited
Emergency telephone numbers	13 11 26 (Poisons Information Centre)
Other emergency telephone numbers	Not Available

## **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

## NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

## ChemWatch Hazard Ratings

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	0	1	1 = Low
Reactivity	0		2 = Moderate
Chronic	0	1	3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s) Pre	evention
P273	Avoid release to the environment.
Precautionary statement(s) Re Not Applicable Precautionary statement(s) Sto Not Applicable	orage
Precautionary statement(s) Dis	sposal
P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
SECTION 3 Composition / ir	nformation on ingredients
Substances	
See section below for composition	of Mixtures

## Mixtures

CAS No	%[weight]	Name
112-90-3	0.1-<0.25	oleyl amine
Not Available	NotSpec	mineral oil
Legend: 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

## **SECTION 4 First aid measures**

Description of first aid measures		
Eye Contact	<ul> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>	
Skin Contact	If skin or hair contact occurs: ► 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.

## **SECTION 5 Firefighting measures**

#### Extinguishing media

- Foam.
- Dry chemical powder.

- BCF (where regulations permit).
  Carbon dioxide.
  Water spray or fog Large fires only.

## Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

## Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit irritating/ toxic fumes.</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> </ul>	
HAZCHEM	Not Applicable	

#### **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	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

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

#### Precautions for safe handling 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. DO NOT enter confined spaces until atmosphere has been checked Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. Safe handling When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Other information Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

## 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	Avoid contamination of water, foodstuffs, feed or seed. None known

## SECTION 8 Exposure controls / personal protection

#### **Control parameters**

Occupational Exposure Limits (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	mineral oil	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available

## Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
mineral oil	140 mg/m3	1,500 mg/m3	8,900 mg/m3

Ingredient

Original IDLH

## 3821 Motorbike Gear Oil 80W-90

Revised IDLH

•	<u> </u>			
oleyl amine	Not Available	Not Available		
mineral oil	2,500 mg/m3	Not Available	Not Available	
Occupational Exposure Bandi	ng			
ngredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
leyl amine	E	≤ 0.1 ppm		
lotes:	Occupational exposure banding is a process of assigning ch adverse health outcomes associated with exposure. The our range of exposure concentrations that are expected to prote	tput of this process is an occupational exposure band (OEB)		
posure controls				
	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job active Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and ch Employers may need to use multiple types of controls to pre General exhaust is adequate under normal operating conditie essential to obtain adequate protection. Provide adequate workplace possess varying "escape" velocities which, in turn remove the contaminant. Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (in aerosols, fumes from pouring operations, intermittent contaminant.	independent of worker interactions to provide this high level ity or process is done to reduce the risk. a selected hazard "physically" away from the worker and ven on can remove or dilute an air contaminant if designed prope emical or contaminant in use. vent employee overexposure. ions. If risk of overexposure exists, wear SAA approved resp entilation in warehouse or closed storage areas. Air contami n, determine the "capture velocities" of fresh circulating air re in still air)	of protection. tilation that strategically rly. The design of a irator. Correct fit is nants generated in the	
Appropriate engineering controls	drift, plating acid fumes, pickling (released at low velocity i direct spray, spray painting in shallow booths, drum filling,	f/min.) 1-2.5 m/s (200-500		
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	f/min) 2.5-10 m/s (500-2000 f/min.)		
	1: Room air currents minimal or favourable to capture         2: Contaminants of low toxicity or of nuisance value only         3: Intermittent, low production.         4: Large hood or large air mass in motion         Simple theory shows that air velocity falls rapidly with distant with the square of distance from the extraction point (in simple accordingly, after reference to distance from the contamination f 1-2 m/s (200-400 f/min.) for extraction of solvents generatic considerations, producing performance deficits within the extractions.	ole cases). Therefore the air speed at the extraction point sh ng source. The air velocity at the extraction fan, for example ted in a tank 2 meters distant from the extraction point. Othe traction apparatus, make it essential that theoretical air velo	ould be adjusted, e, should be a minimum er mechanical	
Personal protection	factors of 10 or more when extraction systems are installed or used.			
Eye and face protection	the wearing of lenses or restrictions on use, should be c and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens should	lenses may absorb and concentrate irritants. A written policy reated for each workplace or task. This should include a rev account of injury experience. Medical and first-aid personne available. In the event of chemical exposure, begin eye irriga d be removed at the first signs of eye redness or irritation - la ands thoroughly. [CDC NIOSH Current Intelligence Bulletin 5	iew of lens absorption I should be trained in ation immediately and ens should be removed	
Skin protection	See Hand protection below			
Hands foot protoction	Wear general protective gloves, eg. light weight rubber glove The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severa and has therefore to be checked prior to the application. The exact break through time for substances has to be obtain making a final choice.	e material, but also on further marks of quality which vary fro al substances, the resistance of the glove material can not b ined from the manufacturer of the protective gloves and has	e calculated in advance to be observed when	

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material,
- glove thickness and
- · dexterity

	Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). • When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than
	240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
	When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
	<ul> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term</li> </ul>
	Use.
	Contaminated gloves should be replaced.
	As defined in ASTM F-739-96 in any application, gloves are rated as:
	Excellent when breakthrough time > 480 min
	Good when breakthrough time > 20 min
	Fair when breakthrough time < 20 min
	Poor when glove material degrades
	For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.
	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on
	consideration of the task requirements and knowledge of breakthrough times.
	Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers'
	technical data should always be taken into account to ensure selection of the most appropriate glove for the task.
	Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
	Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
	Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasic or puncture potential
	Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
	No special equipment needed when handling small quantities.
	OTHERWISE:
Other protection	▶ Overalls.
	▶ Barrier cream.
	Eyewash unit.

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)

## **SECTION 9** Physical and chemical properties

Information on basic physical and chemical properties

intermation on basic physical				
Appearance	Brown colour liquid with characteristic odour; not miscible with water.			
Physical state	Liquid	Relative density (Water = 1)	0.89	
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)	96-142, 11.4-14.3@ 100C	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	210-212	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)	<0.1	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (%)	Not Available	
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available	

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

Reactivity See section 7

Chemical stability	Product is considered stable and hazardous polymerisation will not occur		
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 in	nformation		
Information on toxicological ef	fects		
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.		
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	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
3821 Motorbike Gear Oil	ΤΟΧΙΟΙΤΥ	IRRITATION	
80W-90	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (Rat) LD50; 1200 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
oleyl amine		Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
		Skin: adverse effect observed (irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
mineral oil	Not Available	Not Available	

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

OLEYL AMINE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high vitrating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the initiant. Other criteria for diagnosing RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal hypercytic inflammation, without eosinophilla. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance. On the other hand, industrial bronchitis is a disorder with rates related to the concentration of and duration of exposure to to the narticel's and is completely reversible after exposure to FND ether amines and FND amines. The particel's and to chain or degree of saturation), function and toxicity. Acute exposure to FND ether amines by oral, dermal and inhalation may produce moderate to slight toxicity but repeated skin contact can be highly irritating. However, exposure did not produce any organ-specific toxicity, genetic, reproductive or developmental defect same as in FND amines. The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function. The material may cause skin irritation after prolonged or repeated exposure da may produce no contact skin redness, swelling, the production of vesicles, scaling and thickning of the skin. Worexposure to most of these materials may cause adverse health effects. Many amine-based compound

	contact with amine catalysts. Whole-body effects resul nausea, faintness, anxiety, decrease in blood pressure pharmacological action of the amines, and they are us Eye contact: Amine catalysts are alkaline and their var may cause severe irritation and tissue injury, and the "I irritation, pain and corneal injury. Exposed persons may experience excessive tearing, b blurred or foggy vision with a blue tint, and sometimes when exposure ends. Some people may experience th Ingestion: Amine catalysts have moderate to severe to mouth, throat, gullet and gastrointestinal tract. Material may also experience pain in the chest or abdomen, na thirst, collapse of circulation, coma and even death. Substance has been investigated as a reproductive eff	e, reddening of the skin, hives, and fa- ually temporary. bours are irritating to the eyes, even a burning" may lead to blindness. Conta- burning, inflammation of the conjuncti a halo phenomenon around lights. This effect even when exposed to conc boxicity if swallowed. Some amines car I aspirated due to vomiting can dama uusea, bleeding of the throat and gast	cial swelling. These symptoms may be related to the at low concentrations. Direct contact with liquid amine act with solid products may result in mechanical va, and swelling of the cornea, which manifests as a hese symptoms are temporary and usually disappear entrations that do not cause respiratory irritation. In cause severe irritation, ulcers and burns of the ge the bronchial tubes and the lungs. Affected people
MINERAL OIL	The materials included in the Lubricating Base Oils cal The potential toxicity of a specific distillate base oil is in The adverse effects of these materials are ass The levels of the undesirable components are Distillate base oils receiving the same degree The potential toxicity of residual base oils is in The reproductive and developmental toxicity of Unrefined & mildly refined distillate base oils contain th molecules and have shown the highest potential cance are produced from unrefined and mildly refined oils by refined base oils, the highly and severely refined distillate low mammalian toxicity. Testing of residual oils for mut belief that these materials lack biologically active comp Toxicity testing has consistently shown that lubricating oil's mutagenic and carcinogenic potential correlates w extractables (e.g. IP346 assay), both characteristics th	tegory are related from both process nversely related to the severity or ext sociated with undesirable component a inversely related to the degree of pro- or extent of processing will have sim independent of the degree of processing of the distillate base oils is inversely ri- he highest levels of undesirable comp- er-causing and mutation-causing acti- removing or transforming undesirable ate base oils have a smaller range of tation-causing and cancer-causing po- tation-causing and cancer-causing po- base oils have low acute toxicities. N rith its 3-7 ring polycyclic aromatic cor	ent of processing the oil has undergone, since: s, and ocessing; illar toxicities; ing the oil receives. elated to the degree of processing. oonents, have the largest variation of hydrocarbon vities. Highly and severely refined distillate base oils e components. In comparison to unrefined and mildly hydrocarbon molecules and have demonstrated very tential has shown negative results, supporting the y non-bioavailable due to their molecular size. lumerous tests have shown that a lubricating base mpound (PAC) content, and the level of DMSO
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

## **SECTION 12 Ecological information**

Toxicity

3821 Motorbike Gear Oil 80W-90	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	NOEC(ECx)	96h	Algae or other aquatic plants	<0.001mg/l	2
	LC50	96h	Fish	0.06mg/l	2
oleyl amine	EC50	72h	Algae or other aquatic plants	0.068mg/l	2
	EC50	48h	Crustacea	0.011mg/l	2
	EC50	96h	Algae or other aquatic plants	0.001mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
mineral oil	Not Available	Not Available	Not Available	Not Available	Not Availabl

Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
oleyl amine	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
oleyl amine	LOW (LogKOW = 7.4952)	
Mobility in soil		

mobi	y	 3011	

Ingredient	Mobility
oleyl amine	LOW (KOC = 319800)

## **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

## **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO	
HAZCHEM	Not Applicable	

#### Land transport (ADG): 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

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
oleyl amine	Not Available
mineral oil	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
oleyl amine	Not Available
mineral oil	Not Available

#### **SECTION 15 Regulatory information**

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

#### oleyl amine is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

#### mineral oil is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

## **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (oleyl amine)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes

National Inventory	Status
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

## **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	30/04/2018
SDS Varian Summary	

## SDS Version Summary

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

## Other information

#### Ingredients with multiple cas numbers

Name	CAS No
oleyl amine	112-90-3, 1213789-63-9

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
ES: Exposure Standard
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
AIIC: Australian Inventory of Industrial Chemicals
DSL: Domestic Substances List
NDSL: Non-Domestic Substances List
IECSC: Inventory of Existing Chemical Substance in China
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
NLP: No-Longer Polymers
ENCS: Existing and New Chemical Substances Inventory
KECI: Korea Existing Chemicals Inventory
NZIOC: New Zealand Inventory of Chemicals
PICCS: Philippine Inventory of Chemicals and Chemical Substances
TSCA: Toxic Substances Control Act
TCSI: Taiwan Chemical Substance Inventory
INSQ: Inventario Nacional de Sustancias Químicas
NCI: National Chemical Inventory
FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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