

Lubrication Engineers NZ Ltd

Chemwatch: 22-6161

Version No: 8.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 1

Issue Date: 23/12/2022 Print Date: 29/10/2024 S.GHS.NZL.EN

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

Product Identifier

Product name	LE6802 MULTILEC Industrial Oil
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

Polovant identified uses	Lubricant.
Relevant luentilleu uses	Lubricant. Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Lubrication Engineers NZ Ltd		
Address	11F Piermark Drive North Harbour Industrial Estate Albany, Auckland New Zealand		
Telephone	+64 09 415 9411		
Fax	+64 09 4158411		
Website	Not Available		
Email	Not Available		

Emergency telephone number

Association / Organisation	Lubrication Engineers NZ Ltd	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	+64 21 3385487	+64 800 700 112
Other emergency telephone number(s)	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

Chemwatch Hazard Ratings

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

Classification ^[1]	Non hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

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LE6802 MULTILEC Industrial Oil

Determined by Chemwatch using GHS/HSNO criteria	Not Available
Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
8042-47-5	NotSpec	white mineral oil (petroleum)
140-88-5	NotSpec	ethyl acrylate
122-39-4	NotSpec	diphenylamine
7778-18-9	NotSpec	calcium sulfate
Not Available	balance	Ingredients determined not to be hazardous
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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	 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	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Comment B, NS, SQ

LE6802 MULTILEC Industrial Oil

The material may induce methaemoglobinaemia following exposure.

- Initial attention should be directed at oxygen delivery and assisted ventilation if necessary. Hyperbaric oxygen has not demonstrated substantial benefits.
- Hypotension should respond to Trendelenburg's position and intravenous fluids; otherwise dopamine may be needed.
- Symptomatic patients with methaemoglobin levels over 30% should receive methylene blue. (Cyanosis, alone, is not an indication for treatment). The usual dose is 1-2 mg/kg of a 1% solution (10 mg/ml) IV over 50 minutes; repeat, using the same dose, if symptoms of hypoxia fail to subside within 1 hour.
 Thorough cleansing of the entire contaminated area of the body, including the scalp and nails, is of utmost importance.

Sampling Time

During or end of shift

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

- Determinant
- 1. Methaemoglobin in blood 1.5% of haemoglobin

B: Background levels occur in specimens collected from subjects **NOT** exposed

NS: Non-specific determinant; also observed after exposure to other materials

- SQ: Semi-quantitative determinant Interpretation may be ambiguous; should be used as a screening test or confirmatory test.
- 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.

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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 Firefighting measures

Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Do not use a water jet to fight fire.

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
Fire incompatibility	result

Advice for firefighters

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.
Fire/Explosion Hazard	 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: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous 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. nitrogen oxides (NOx) phosphorus oxides (FOx) sulfur oxides (SOx) May emit corrosive fumes. 43cz43dh

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

	Slippery when spilt.
	Remove all ignition sources.
Minor Spills	Clean up all spills immediately.
	Avoid breathing vapours and contact with skin and eyes.
	Control personal contact with the substance, by using protective equipment.

Major Spills	 Slippery when spilt. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves.
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe 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	Avoid strong acids, bases.Avoid reaction with oxidising agents



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	white mineral oil (petroleum)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) - Sampled by a method that does not collect vapour
New Zealand Workplace Exposure Standards (WES)	ethyl acrylate	Ethyl acrylate	2 ppm / 8.3 mg/m3	16.6 mg/m3 / 4 ppm	Not Available	(dsen) - Dermal sensitiser (skin) - Skin absorption
New Zealand Workplace Exposure Standards (WES)	diphenylamine	Diphenylamine	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium sulfate	Calcium sulphate (Gypsum, Plaster of Paris)	10 mg/m3	Not Available	Not Available	Not Available
Ingredient	Original IDLH			Revised IDLH		
white mineral oil (petroleum)	2,500 mg/m3			Not Available		
ethyl acrylate	300 ppm			Not Available		
diphenylamine	Not Available			Not Available		
calcium sulfate	Not Available			Not Available		

Appropriate engineering controls	I he basic types of engineering controls are:		
Individual protection measures, such as personal protective equipment			
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. 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 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. Skin cleansing cream. 		

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: LE6802 MULTILEC Industrial Oil

Material	CPI
BUTYL	A
PVA	A
TEFLON	A
BUTYL/NEOPRENE	С
VITON/NEOPRENE	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Ansell Glove Selection

Glove — In order of recommendation
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® Solvex® 37-675

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 ^

^ - Full-face

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

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

AlphaTec® 15-554
AlphaTec® 79-700
MICROFLEX® 93-244

The suggested gloves for use should be confirmed with the glove supplier.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Red liquid with a hydrocarbon-like odour; not miscible with water.				
Physical state	Liquid	Relative density (Water = 1)	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)	6-8	Decomposition temperature (°C)	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	48.42		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	223	Taste	Not Available		
Evaporation rate	Not Applicable	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	Immiscible	pH as a solution (1%)	Not Applicable		
Vapour density (Air = 1)	<1	VOC g/L	Not Available		
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available		
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available		
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available		

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. 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 information

Information on toxicological effects

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation hazard is increased at higher temperatures.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. The substance and/or its metabolites may bind to haemoglobin inhibiting normal uptake of oxygen. This condition, known as "methaemoglobinemia", is a form of oxygen starvation (anoxia). Symptoms include cyanosis (a bluish discolouration skin and mucous membranes) and breathing difficulties. Symptoms may not be evident until several hours after exposure.

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LE6802 MULTILEC Industrial Oil

	ΤΟΧΙCITY	IRRITATION	
Chronic	Substance accumulation, in the human body, may occur and ma occupational exposure. Oil may contact the skin or be inhaled. Extended exposure can be face and warts on the soles of the feet. Most arylamines are very toxic to the blood cell-forming system, congest the spleen and then cause formation of sarcomas (a typ Repeated or prolonged exposure to corrosives may result in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with co	ead to eczema, inflammation of hair follicles, pigmentation of the and they produce methaemoglobinaemia in humans. High doses e of malignant tumour). erosion of teeth, inflammatory and ulcerative changes in the	
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition		

LE6802 MULTILEC	ΤΟΧΙΟΙΤΥ	IRRITATION
Industrial Oil	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
white mineral oil	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
(petroleum)	Inhalation (Rat) LC50: >4.5 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >5000 mg/kg ^[2]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 1800 mg/kg ^[2]	Eye (Primate - monkey): 1204ppm/15H (intermittent)
	Inhalation (Rat) LC50: ~6.45 mg/l4h ^[1]	Eye (Rodent - guinea pig): 1204ppm/7H
	Oral (Rat) LD50: 800 mg/kg ^[2]	Eye (Rodent - rabbit): 1204ppm/7H
ethyl acrylate		Eye (Rodent - rabbit): 45mg - Mild
		Eye (Rodent - rat): 1204ppm/14H (intermittent)
		Skin (Human - woman): 0.1%/48H
		Skin (Rodent - rabbit): 10mg/24H - Mild
		Skin (Rodent - rabbit): 500mg - Mild
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (Rodent - rabbit): 100mg
diphenylamine	Oral (Guinea) LD50; 300 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
		Skin: no adverse effect observed (not irritating) $^{[1]}$
	ΤΟΧΙΟΙΤΥ	IRRITATION
calcium sulfate	Inhalation (Rat) LC50: >3.26 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >1581 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]

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

WHITE MINERAL OIL (PETROLEUM)	Oral (rat) TCLo: 92000 mg/kg/92D-Cont. Generally the toxicity and irritation is of low order. White oils and highly/solvent refined oils have not shown the long term risk of skin cancer that follows persistent skin contamination with some other mineral oils, due in all probability to refining that produces low content of both polyaromatics (PAH) and benz-alpha-pyrenes (BaP) The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.
ETHYL ACRYLATE	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. Where no "official" classification for acrylates and methacrylates exists, there have been cautious attempts to create classifications in the absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53 Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38 The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

	WARNING: This substance has been classified by the Tenth Annual Report on Carcinogens: Substance antici [<i>National Toxicology Program: U.S. Dep. of Health & H</i> Based on the available oncogenicity data and without a Environmental Review Division (HERD), Office of Toxic chemicals that contain the acrylate or methacrylate mo carcinogenic hazard unless shown otherwise by adequ This position has now been revised and acrylates and	cipated to be Carcinogen <i>Human Services 2002</i>] a better understanding of the c Substances (OTS), of the biety (CH2=CHCOO or CH2 uate testing.	ne carcinogenic mechanism the Health and US EPA previously concluded that all 2=C(CH3)COO) should be considered to be a
DIPHENYLAMINE	ADI: 0.02 mg/kg/day NOEL: 1.5 mg/kg/day Heating of substituted diphenylamines may generate vapours which can irritate the eyes and airways. Drying of skin and mucous membranes leading to irritation may occur with prolonged or repeated contact. Overexposure may cause skin and airway irritation with dizziness and flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration. Diphenylamine and all its substituted derivatives show slight to moderate acute toxicity. Overall, it is not considered to cause mutations or genetic toxicity. In animal testing, higher concentrations appear to reduce the number of viable offspring.		
CALCIUM SULFATE	Gypsum (calcium sulfate dehydrate) irritates the skin, eye, mucous membranes, and airways. A series of studies involving Gypsum industry workers in Poland reported chronic, non-specific airways diseases. Repeat dose toxicity: Examination of workers at a gypsum manufacturing plant found restrictive defects on long-function tests in those who were chronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to be protective on quartz toxicity in animal testing.		
LE6802 MULTILEC Industrial Oil & WHITE MINERAL OIL (PETROLEUM)	The materials included in the Lubricating Base Oils cat The potential toxicity of a specific distillate base oil is ir undergone, since: • The adverse effects of these materials are associated • The levels of the undesirable components are inverse • Distillate base oils receiving the same degree or exte • The potential toxicity of residual base oils is independ • The reproductive and developmental toxicity of the di- Unrefined & mildly refined distillate base oils contain the hydrocarbon molecules and have shown the highest pro- severely refined distillate base oils are produced from components. In comparison to unrefined and mildly ref- smaller range of hydrocarbon molecules and have dem mutation-causing and cancer-causing potential has sho biologically active components or the components are Toxicity testing has consistently shown that lubricating For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >50 weight the acute for the for inhelation is a for the fo	nversely related to the seven d with undesirable compon- ely related to the degree of ent of processing will have se dent of the degree of proce- istillate base oils is inversel he highest levels of undesir potential cancer-causing and unrefined and mildly refine- fined base oils, the highly a monstrated very low mamm iown negative results, supp- largely non-bioavailable du base oils have low acute to 5g/kg body weight and the	rity or extent of processing the oil has ents, and processing; imilar toxicities; ssing the oil receives. y related to the degree of processing. able components, have the largest variation of d mutation-causing activities. Highly and d oils by removing or transforming undesirable nd severely refined distillate base oils have a alian toxicity. Testing of residual oils for orting the belief that these materials lack the to their molecular size. oxicities.
	"moderately irritating" when tested for skin and eye irrit	-	als have varied from "non-irritating" to ion has been negative.
LE6802 MULTILEC Industrial Oil & ETHYL ACRYLATE & DIPHENYLAMINE & CALCIUM SULFATE	-	tation. Testing for sensitisation en years after exposure to on syndrome (RADS) which g RADS include the absence symptoms within minutes reversible airflow pattern or	ion has been negative. the material ends. This may be due to a non- can occur after exposure to high levels of e of previous airways disease in a non-atopic o hours of a documented exposure to the lung function tests, moderate to severe
Industrial Oil & ETHYL ACRYLATE & DIPHENYLAMINE &	"moderately irritating" when tested for skin and eye irrit Asthma-like symptoms may continue for months or eve allergic condition known as reactive airways dysfunction highly irritating compound. Main criteria for diagnosing individual, with sudden onset of persistent asthma-like irritant. Other criteria for diagnosis of RADS include a r bronchial hyperreactivity on methacholine challenge te	tation. Testing for sensitisation en years after exposure to on syndrome (RADS) which g RADS include the absence symptoms within minutes reversible airflow pattern or	ion has been negative. the material ends. This may be due to a non- can occur after exposure to high levels of e of previous airways disease in a non-atopic o hours of a documented exposure to the lung function tests, moderate to severe
Industrial Oil & ETHYL ACRYLATE & DIPHENYLAMINE & CALCIUM SULFATE	"moderately irritating" when tested for skin and eye irrit Asthma-like symptoms may continue for months or eve allergic condition known as reactive airways dysfunctio highly irritating compound. Main criteria for diagnosing individual, with sudden onset of persistent asthma-like irritant. Other criteria for diagnosis of RADS include a r bronchial hyperreactivity on methacholine challenge te eosinophilia.	itation. Testing for sensitisation en years after exposure to on syndrome (RADS) which g RADS include the absence e symptoms within minutes reversible airflow pattern or esting, and the lack of minin	ion has been negative. the material ends. This may be due to a non- can occur after exposure to high levels of e of previous airways disease in a non-atopic o hours of a documented exposure to the o lung function tests, moderate to severe nal lymphocytic inflammation, without
Industrial Oil & ETHYL ACRYLATE & DIPHENYLAMINE & CALCIUM SULFATE Acute Toxicity	"moderately irritating" when tested for skin and eye irrit Asthma-like symptoms may continue for months or eve allergic condition known as reactive airways dysfunctio highly irritating compound. Main criteria for diagnosing individual, with sudden onset of persistent asthma-like irritant. Other criteria for diagnosis of RADS include a r bronchial hyperreactivity on methacholine challenge te eosinophilia.	itation. Testing for sensitisar en years after exposure to on syndrome (RADS) which RADS include the absence symptoms within minutes reversible airflow pattern or esting, and the lack of minir	ion has been negative. the material ends. This may be due to a non- can occur after exposure to high levels of e of previous airways disease in a non-atopic o hours of a documented exposure to the lung function tests, moderate to severe hal lymphocytic inflammation, without
Industrial Oil & ETHYL ACRYLATE & DIPHENYLAMINE & CALCIUM SULFATE Acute Toxicity Skin Irritation/Corrosion Serious Eye	"moderately irritating" when tested for skin and eye irrit Asthma-like symptoms may continue for months or ever allergic condition known as reactive airways dysfunction highly irritating compound. Main criteria for diagnosing individual, with sudden onset of persistent asthma-like irritant. Other criteria for diagnosis of RADS include a r bronchial hyperreactivity on methacholine challenge te eosinophilia.	itation. Testing for sensitisat en years after exposure to on syndrome (RADS) which g RADS include the absence e symptoms within minutes reversible airflow pattern or esting, and the lack of minin Carcinogenicity Reproductivity	ion has been negative. the material ends. This may be due to a non- can occur after exposure to high levels of e of previous airways disease in a non-atopic o hours of a documented exposure to the a lung function tests, moderate to severe hal lymphocytic inflammation, without X

Data either not available or does not fill the criteria for class
 Data available to make classification

SECTION 12 Ecological information

Toxicity

LE6802 MULTILEC Industrial Oil	Endpoint	Test Duration (hr)	Species	Value	e Source
	Not Available	Not Available	Not Available	Not Avail	Not able Available
white mineral oil	Endpoint	Test Duration (hr)	Species	Value	Source
(petroleum)	LC50	96h	Fish	>10000)mg/L 2
ethyl acrylate	Endpoint	Test Duration (hr)	Species	Val	ue Source
	EC50	72h	Algae or other aquatic plants	17	1mg/l 2

Continued...

	EC50	48h	Crustacea	4.4mg/l	1
	LC50	96h	Fish	2mg/l	2
	NOEC(ECx)	504h	Crustacea	0.19mg/l	1
	EC50	96h	Algae or other aquatic plants	5.5mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1344h	Fish	51-253	7
	EC50	72h	Algae or other aquatic plants	0.048mg/l	1
diphenylamine	EC50	48h	Crustacea	0.27- 0.36mg/l	4
	EC50(ECx)	72h	Algae or other aquatic plants	0.048mg/l	1
	LC50	96h	Fish	2.088- 3.596mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>79mg/l	2
calcium sulfate	LC50	96h	Fish	>79mg/l	2
	EC50	96h	Algae or other aquatic plants	3200mg/L	4
	NOEC(ECx)	0.25h	Fish	75mg/l	4
Legend:	4. US EPA, Eco	• •	e ECHA Registered Substances - Ecotoxicologica ata 5. ECETOC Aquatic Hazard Assessment Da		atic Toxici

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

- + drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- Iethal effects on fish by coating gill surfaces, preventing respiration

+ asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and

adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

for lubricating oil base stocks:

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

For Arylamines (Aromatic Amines):

Aquatic Fate - Arylamines, particularly aromatic amines, irreversibly bind with humic substances present in most natural waters. The estimated half-life of aromatic amines in water is approximetly 100 days.

Ecotoxicity: Anilines, benzidines and toluidines are of environmental concern. Anilines and benzidines are both acutely toxic and toxic depending on the specific aquatic species (except algae).

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethyl acrylate	LOW (Half-life = 14 days)	LOW (Half-life = 0.95 days)
diphenylamine	LOW (Half-life = 56 days)	Not Available
calcium sulfate	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
ethyl acrylate	LOW (LogKOW = 1.32)
diphenylamine	LOW (BCF = 253)
calcium sulfate	LOW (LogKOW = -2.2002)

Mobility in soil

Ingredient	Mobility
ethyl acrylate	LOW (Log KOC = 11.85)
diphenylamine	LOW (Log KOC = 1887)
calcium sulfate	LOW (Log KOC = 6.124)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: • Reduction • Reuse • Recycling • Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. • 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.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Not applicable as substance/ material is non hazardous.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): 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

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

Not Applicable

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

Product name	Group
white mineral oil (petroleum)	Not Available
ethyl acrylate	Not Available
diphenylamine	Not Available
calcium sulfate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
white mineral oil (petroleum)	Not Available
ethyl acrylate	Not Available
diphenylamine	Not Available
calcium sulfate	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard			
Not Applicable	ot Applicable Not Applicable			
Please refer to Section 8 of	the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.			
white mineral oil (petroleu	m) is found on the following regulatory lists			
Chemical Footprint Project -	Chemicals of High Concern List			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic			
New Zealand Approved Haz	ardous Substances with controls			
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals				
New Zealand Inventory of Chemicals (NZIoC)				
New Zealand Workplace Ex	posure Standards (WES)			
ethyl acrylate is found on	the following regulatory lists			
Chemical Footprint Project -	Chemicals of High Concern List			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans			
New Zealand Approved Haz	ardous Substances with controls			
New Zealand Hazardous Su	bstances and New Organisms (HSNO) Act - Classification of Chemicals			
New Zealand Hazardous Su	bstances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data			
New Zealand Inventory of C	hemicals (NZIoC)			
New Zealand Workplace Ex	posure Standards (WES)			
diphenylamine is found or	the following regulatory lists			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs			
International Agency for Res	earch on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans			
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)				
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals				
New Zealand Hazardous Su	bstances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data			
New Zealand Inventory of Chemicals (NZIoC)				
New Zealand Workplace Ex	posure Standards (WES)			
calcium sulfate is found o	n the following regulatory lists			
New Zealand Inventory of Chemicals (NZIoC)				

New Zealand Workplace Exposure Standards (WES)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (white mineral oil (petroleum); ethyl acrylate; diphenylamine; calcium sulfate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
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	23/12/2022
Initial Date	04/12/2009

SDS Version Summary

Version	Date of Update	Sections Updated	
7.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification	
8.1	23/12/2022	Classification review due to GHS Revision change.	

Other information

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

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

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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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