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20206 VISCOPLUS FOR OIL 300ml

Liqui Moly GmbH

Chemwatch: 5465-27

Version No: 3.1.4.4 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

SECTION 1 Identification

Product Identifier	
Product name	20206 VISCOPLUS FOR OIL 300ml
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Use according to manufacturer's directions.

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

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

Emergency phone number

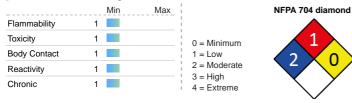
Association / Organisation	INFOTRAC
Emergency telephone numbers	+1800 535 5053 (US, Canada & Mexico)
Other emergency telephone numbers	+1 352 323 3500 (International)

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

Classification

ChemWatch Hazard Ratings



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)



Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Chronic Aquatic Hazard Category 3

H412 Harmful to aquatic life with long lasting effects.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P271	P271 Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	

Precautionary statement(s) Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary statement(s) Storage

P405 St	Store locked up.
P403+P233 St	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64742-54-7.	>60	paraffinic distillate, heavy, hydrotreated (severe)
64742-65-0.	<10	paraffinic distillate, heavy, solvent-dewaxed (severe)
64742-56-9.	<10	paraffinic distillate, light, solvent-dewaxed (severe)
64741-88-4.	<2	paraffinic distillate, heavy, solvent-refined (severe)
68649-42-3	<1	zinc dialkyl dithiophosphate

SECTION 4 First-aid measures

Description of first aid measur	res
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 or hair contact occurs: ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 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. Transport to hospital, or doctor.
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. Avoid giving milk or oils. Avoid giving alcohol. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Most important symptoms and effects, both acute and delayed

See Section 11

For petroleum distillates

- In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration.
- Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.
- Positive pressure ventilation may be necessary.
- Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.
- After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such
 patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary
 disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.
- · Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.
- Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur.Careful
 consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

BP America Product Safety & Toxicology Department

+ Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.

In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.

High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

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

SECTION 5 Fire-fighting measures

Extinguishing media

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Special protective equipment a	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.
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) 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	 Slippery when spilt. Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	 Slippery when spilt. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	Hydrogen sulfide (H2S or Sour Gas) may be present when loading and unloading transport vessels. Stay upwind and away from newly opened hatches and allow to vent thoroughly before handling material. Steam may be used to vent hatches. Keep all sources of ignition away from loading area. The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100

	 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. 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. 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 m/sec). Avoid splash filling.
	 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	Image: Store in original containers. Image: Keep containers securely sealed. No smoking, naked lights or ignition sources. Image: 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 Limits (PELs) Table Z-1	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffinic distillate, heavy, hydrotreated (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter)	5 mg/m3	Not Available	Not Available	A4
US OSHA Permissible Exposure Limits (PELs) Table Z-1	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
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Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
paraffinic distillate, heavy, hydrotreated (severe)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
paraffinic distillate, heavy, solvent-dewaxed (severe)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
paraffinic distillate, light, solvent- dewaxed (severe)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
paraffinic distillate, heavy, solvent-refined (severe)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
Ingredient	Original IDLH		Revised IDLH	
paraffinic distillate, heavy, hydrotreated (severe)	2,500 mg/m3		Not Available	
paraffinic distillate, heavy, solvent-dewaxed (severe)	2,500 mg/m3		Not Available	
paraffinic distillate, light, solvent- dewaxed (severe)	2,500 mg/m3		Not Available	

Ingredient	Original IDLH	Revised IDLH	
paraffinic distillate, heavy, solvent-refined (severe)	2,500 mg/m3	Not Available	
zinc dialkyl dithiophosphate	Not Available	Not Available	
Occupational Exposure Bandir	ng		
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
zinc dialkyl dithiophosphate	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

Exposure controls

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Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	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.

Respiratory protection

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

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

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

^ - Full-face

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

+ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Orange liquid with characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.891
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

1

Not Available	Viscosity (cSt)	315.86
Not Available	Molecular weight (g/mol)	Not Applicable
101	Taste	Not Available
Not Available	Explosive properties	Not Available
Not Applicable	Oxidising properties	Not Available
Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Not Available	Volatile Component (%vol)	Not Available
Not Available	Gas group	Not Available
Immiscible	pH as a solution (%)	Not Available
Not Available	VOC g/L	Not Available
	Not Available 101 Not Available Not Available Not Available Not Available Not Available Immiscible	Not AvailableMolecular weight (g/mol)101TasteNot AvailableExplosive propertiesNot ApplicableOxidising propertiesNot AvailableSurface Tension (dyn/cm or mN/m)Not AvailableVolatile Component (%vol)Not AvailableGas groupImmisciblepH as a solution (%)

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

Inhaled	Inhalation hazard is increased at higher temperatures. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs. 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	Ingestion of petroleum hydrocarbons can irritate the phar mucous. Symptoms include a burning mouth and throat;	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nause and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.		
Skin Contact	and shallow breatning, addominal swelling, unconsciousness and convulsions. The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives. Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	This material can cause eye irritation and damage in som	This material can cause eye irritation and damage in some persons.		
Chronic	on the soles of the feet. Constant or exposure over long periods to mixed hydroca and anaemia, and reduced liver and kidney function. Skir			
	on the soles of the feet. Constant or exposure over long periods to mixed hydroca and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa			
Chronic 20206 VISCOPLUS FOR OIL 300ml	on the soles of the feet. Constant or exposure over long periods to mixed hydroca and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa severely hydrotreated oils.	arbons may produce stupor with dizziness, weakness and visual disturbance, weight los n exposure may result in drying and cracking and redness of the skin. Ily paraffinic), to mouse skin, induced skin tumours; no tumours were induced with		
20206 VISCOPLUS FOR OIL	on the soles of the feet. Constant or exposure over long periods to mixed hydroca and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa severely hydrotreated oils.	arbons may produce stupor with dizziness, weakness and visual disturbance, weight los n exposure may result in drying and cracking and redness of the skin. Ily paraffinic), to mouse skin, induced skin tumours; no tumours were induced with IRRITATION		
20206 VISCOPLUS FOR OIL 300ml	on the soles of the feet. Constant or exposure over long periods to mixed hydrocc and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa severely hydrotreated oils. TOXICITY Not Available	arbons may produce stupor with dizziness, weakness and visual disturbance, weight los n exposure may result in drying and cracking and redness of the skin. Ily paraffinic), to mouse skin, induced skin tumours; no tumours were induced with IRRITATION Not Available		
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20206 VISCOPLUS FOR OIL 300ml paraffinic distillate, heavy,	on the soles of the feet. Constant or exposure over long periods to mixed hydroca and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa severely hydrotreated oils. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[2]	arbons may produce stupor with dizziness, weakness and visual disturbance, weight los n exposure may result in drying and cracking and redness of the skin. Ily paraffinic), to mouse skin, induced skin turnours; no turnours were induced with IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1]		
20206 VISCOPLUS FOR OIL 300ml paraffinic distillate, heavy,	on the soles of the feet. Constant or exposure over long periods to mixed hydrocc and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa severely hydrotreated oils. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[2] Inhalation(Rat) LC50; 2.18 mg/l4h ^[2]	arbons may produce stupor with dizziness, weakness and visual disturbance, weight los n exposure may result in drying and cracking and redness of the skin. Ily paraffinic), to mouse skin, induced skin tumours; no tumours were induced with IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1]		
20206 VISCOPLUS FOR OIL 300ml paraffinic distillate, heavy, hydrotreated (severe)	on the soles of the feet. Constant or exposure over long periods to mixed hydroca and anaemia, and reduced liver and kidney function. Skir Repeated application of mildly hydrotreated oils (principa severely hydrotreated oils. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[2] Inhalation(Rat) LC50; 2.18 mg/l4h ^[2] Oral(Rat) LD50; >5000 mg/kg ^[2]	arbons may produce stupor with dizziness, weakness and visual disturbance, weight los n exposure may result in drying and cracking and redness of the skin. Ily paraffinic), to mouse skin, induced skin tumours; no tumours were induced with IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]		
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	ΤΟΧΙΟΙΤΥ	IRRITATION	
paraffinic distillate, light,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse	effect observed (not irritating) ^[1]
solvent-dewaxed (severe)	Inhalation(Rat) LC50; 2.18 mg/l4h ^[2]	Skin: no adverse	e effect observed (not irritating) ^[1]
	Oral(Rat) LD50; >5000 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse	effect observed (not irritating) ^[1]
solvent-refined (severe)	Inhalation(Rat) LC50; 2.18 mg/l4h ^[2]	Skin: no adverse	e effect observed (not irritating) ^[1]
	Oral(Rat) LD50; >5000 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >3000 mg/kg ^[1]	Eye (human):SE	VERE [Manufacturer]
zinc dialkyl dithiophosphate	Oral(Rat) LD50; 2154 mg/kg ^[1]	Eye: adverse eff	ect observed (irritating) ^[1]
		Skin: adverse ef	fect observed (irritating) ^[1]
		Skin: no adverse	e effect observed (not irritating) ^[1]
Legend:	1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of To:	•	ained from manufacturer's SDS. Unless otherwise
PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE)	Animal studies indicate that normal, branched and cyc n-paraffins is inversely proportional to the carbon chai be present in mineral oil, n-paraffins may be absorbed The major classes of hydrocarbons are well absorbed hydrocarbons are ingested in association with fats in t gut lymph, but most hydrocarbons partly separate from	n length, with little absorption above (I to a greater extent than iso- or cyclo- into the gastrointestinal tract in variou he diet. Some hydrocarbons may app	C30. With respect to the carbon chain lengths likely to paraffins. us species. In many cases, the hydrophobic war unchanged as in the lipoprotein particles in the
ZINC DIALKYL DITHIOPHOSPHATE	Reproductive effector in rats. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Dithiophosphate alkyl esters is corrosive and toxic to the tissues on skin or oral exposure depending on its concentration. Symptoms included diarrhoea, skin and gastrointestinal irritation, lethargy, reduced food intake, staining about the nose and eye; occasionally, there was drooping of the eyelid, hair standing up, inco-ordination and salivation. Toxicity is reduced following inhalation (due to vapour pressure and high viscosity). It may produce reproductive, developmental and genetic toxicity on experimental animals, but no substantive data is available to establish effect on		
DITRIOPROSPRATE	the eyelid, hair standing up, inco-ordination and saliva	tion. Toxicity is reduced following inha	the nose and eye; occasionally, there was drooping alation (due to vapour pressure and high viscosity). I
PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-REFINED (SEVERE)	the eyelid, hair standing up, inco-ordination and saliva may produce reproductive, developmental and genetic	tion. Toxicity is reduced following inha- c toxicity on experimental animals, but tegory are related from both process nversely related to the severity or ext isociated with undesirable component inversely related to the degree of pro- e or extent of processing will have sim independent of the degree of processi- of the distillate base oils is inversely re- the highest levels of undesirable components or removing or transforming undesirable late base oils have a smaller range of tation-causing and cancer-causing po- ponents or the components are larged base oils have low acute toxicities. 5g/kg body weight and the semilethal y/L. The materials have varied from "me en negative.	the nose and eye; occasionally, there was drooping alation (due to vapour pressure and high viscosity). I t no substantive data is available to establish effect of and physical-chemical perspectives; ent of processing the oil has undergone, since: s, and occessing; ilar toxicities; ng the oil receives. elated to the degree of processing. ponents, have the largest variation of hydrocarbon vities. Highly and severely refined distillate base oils e components. In comparison to unrefined and mildl hydrocarbon molecules and have demonstrated ver tential has shown negative results, supporting the y non-bioavailable due to their molecular size. dose by skin contact is >2g/kg body weight. The
PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY,	the eyelid, hair standing up, inco-ordination and saliva may produce reproductive, developmental and genetic humans. The materials included in the Lubricating Base Oils ca The potential toxicity of a specific distillate base oil is oi • The adverse effects of these materials are as • 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 the 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 distill low mammalian toxicity. Testing of residual oils for mu- belief that these materials lack biologically active com Toxicity testing has consistently shown that lubricating For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is > semilethal concentration for inhalation is 2.18 to >4 mg skin and eye irritation. Testing for sensitisation has be The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.	tion. Toxicity is reduced following inha- c toxicity on experimental animals, but thegory are related from both process nversely related to the severity or ext isociated with undesirable component inversely related to the degree of pro- e or extent of processing will have sim independent of the degree of processi of the distillate base oils is inversely re- the highest levels of undesirable components or removing or transforming undesirable late base oils have a smaller range of tation-causing and cancer-causing po- ponents or the components are larged base oils have low acute toxicities. 5g/kg body weight and the semilethal y/L. The materials have varied from "me en negative.	the nose and eye; occasionally, there was drooping of alation (due to vapour pressure and high viscosity). I t no substantive data is available to establish effect of and physical-chemical perspectives; ent of processing the oil has undergone, since: s, and occessing; ilar toxicities; ng the oil receives. elated to the degree of processing. bonents, 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 ver tential has shown negative results, supporting the y non-bioavailable due to their molecular size.
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PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-REFINED (SEVERE) PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-REFINED (SEVERE)	the eyelid, hair standing up, inco-ordination and saliva may produce reproductive, developmental and genetic humans. The materials included in the Lubricating Base Oils ca The potential toxicity of a specific distillate base oil is is • The adverse effects of these materials are as • 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 the 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 distill low mammalian toxicity. Testing of residual oils for mu belief that these materials lack biologically active com Toxicity testing has consistently shown that lubricating For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is > semilethal concentration for inhalation is 2.18 to >4 mg skin and eye irritation. Testing for sensitisation has be The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limit No significant acute toxicological data identified in liter	tion. Toxicity is reduced following inha- c toxicity on experimental animals, but tegory are related from both process inversely related to the severity or ext isociated with undesirable component is inversely related to the degree of pro- e or extent of processing will have sim independent of the degree of processi- of the distillate base oils is inversely re- the highest levels of undesirable com- er-causing and mutation-causing acti- tremoving or transforming undesirable late base oils have a smaller range of tation-causing and cancer-causing po- ponents or the components are largel base oils have low acute toxicities. 5g/kg body weight and the semilethal /L. The materials have varied from "me en negative. ited in animal testing. Carcinogenicity	the nose and eye; occasionally, there was drooping alation (due to vapour pressure and high viscosity). It no substantive data is available to establish effect of and physical-chemical perspectives; ent of processing the oil has undergone, since: s, and occessing; ilar toxicities; ng the oil receives. elated to the degree of processing. Donents, have the largest variation of hydrocarbon vities. Highly and severely refined distillate base oils e components. In comparison to unrefined and mildl hydrocarbon molecules and have demonstrated vertential has shown negative results, supporting the y non-bioavailable due to their molecular size.
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Data either not available or does not
 Data available to make classification

Continued...

20206 VISCOPLUS FOR OIL 300ml

	ity

	Endpoint	Test Duration (hr)	Species	Value	Source
20206 VISCOPLUS FOR OIL 300ml	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
paraffinic distillate, heavy, hydrotreated (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
ilyarolicatea (corere)	EC50	48h	Crustacea	>1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
paraffinic distillate, heavy, solvent-dewaxed (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
solvent-dewaxed (severe)	EC50	48h	Crustacea	>1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
paraffinic distillate, light, solvent-dewaxed (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
paraffinic distillate, heavy, solvent-refined (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
zina dialkul dithianhaanhata	NOEC(ECx)	48h	Crustacea	<1mg/l	1
zinc dialkyl dithiophosphate	EC50	48h	Crustacea	11.5mg/l	1
	EC50	96h	Algae or other aquatic plants	1-5mg/l	1
Legend:	V3.12 (QSAR)	- Aquatic Toxicity Data (Estimated) 4.	HA Registered Substances - Ecotoxicological Informatior US EPA, Ecotox database - Aquatic Toxicity Data 5. ECE 1 (Japan) - Bioconcentration Data 8. Vendor Data		

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil Persistence: Air			
	No Data available for all ingredients No Data available for all ingredients			
Bioaccumulative potential				
Ingredient	Bioaccumulation			
zinc dialkyl dithiophosphate	LOW (BCF = 100)			

Ingredient	Mobility
	No Data available for all ingredients

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.
	* Recycle containers it possible, of dispose of in an authorised fandulii.
SECTION 14 Transport infor	mation
Labels Required	
Marine Pollutant	NO
Sea transport (IMDG-Code / Go Transport in bulk according to Not Applicable	R): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS GVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Annex II of MARPOL and the IBC code
•	e with MARPOL Annex V and the IMSBC Code
Product name	Group
paraffinic distillate, heavy, hydrotreated (severe)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe)	Not Available
paraffinic distillate, light, solvent- dewaxed (severe)	Not Available
paraffinic distillate, heavy, solvent-refined (severe)	Not Available

Transport in bulk in accordance with the ICG Code

Not Available

zinc dialkyl dithiophosphate

Product name	Ship Type
paraffinic distillate, heavy, hydrotreated (severe)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe)	Not Available
paraffinic distillate, light, solvent- dewaxed (severe)	Not Available
paraffinic distillate, heavy, solvent-refined (severe)	Not Available
zinc dialkyl dithiophosphate	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture paraffinic distillate, heavy, hydrotreated (severe) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List US DOE Temporary Emergency Exposure Limits (TEELs) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US OSHA Permissible Exposure Limits (PELs) Table Z-1 Monographs US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US ACGIH Threshold Limit Values (TLV) US TSCA Chemical Substance Inventory - Interim List of Active Substances US ACGIH Threshold Limit Values (TLV) - Carcinogens paraffinic distillate, heavy, solvent-dewaxed (severe) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List US DOE Temporary Emergency Exposure Limits (TEELs) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US OSHA Permissible Exposure Limits (PELs) Table Z-1 Monographs US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US ACGIH Threshold Limit Values (TLV) US TSCA Chemical Substance Inventory - Interim List of Active Substances US ACGIH Threshold Limit Values (TLV) - Carcinogens paraffinic distillate, light, solvent-dewaxed (severe) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List US DOE Temporary Emergency Exposure Limits (TEELs) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US OSHA Permissible Exposure Limits (PELs) Table Z-1 Monographs US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US ACGIH Threshold Limit Values (TLV) US TSCA Chemical Substance Inventory - Interim List of Active Substances US ACGIH Threshold Limit Values (TLV) - Carcinogens paraffinic distillate, heavy, solvent-refined (severe) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List US DOE Temporary Emergency Exposure Limits (TEELs) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US OSHA Permissible Exposure Limits (PELs) Table Z-1 Monographs US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US ACGIH Threshold Limit Values (TLV) US TSCA Chemical Substance Inventory - Interim List of Active Substances US ACGIH Threshold Limit Values (TLV) - Carcinogens

Continued...

7		•		•			-	-	
	US CWA	(Clean V	Vater	Act) -	Priority Pollut	ants			
	US CWA	(Clean V	Vater	Act) -	Toxic Polluta	nts			

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4) None Reported

State Regulations

US. California Proposition 65 None Reported

National Inventory Status

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

SECTION 16 Other information

Revision Date 02/06/2021

Initial Date 29/04/2021

SDS Version Summary

Version	Date of Update	Sections Updated
3.1.3.1	10/05/2021	Regulation Change
3.1.4.1	24/05/2021	Regulation Change
3.1.4.2	30/05/2021	Template Change
3.1.4.2	02/06/2021	Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Chronic Health, Classification, First Aid (inhaled), First Aid (swallowed), Handling Procedure, Ingredients, Synonyms
3.1.4.3	04/06/2021	Template Change
3.1.4.4	05/06/2021	Template 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 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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