

LEYBONOL LVO 100

Leybold USA Inc.

Chemwatch: **5317-45** Version No: **11.1**

Safety Data Sheet according to OSHA HazCom Standard (2024) requirements

Initial Date: 22/08/2018 Revision Date: 22/04/2024 Print Date: 06/11/2025

S.GHS.USA.EN.E

SECTION 1 Identification

Product Identifier

Product name	LEYBONOL LVO 100
Synonyms	L10001; L10005; L10020; L10099
Chemical formula	Not Applicable
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	ш	Vacuum	pump	oil
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Leybold USA Inc.
Address	6005 Enterprise Drive Export, PA 15632 United States
Telephone	+1 800-764-5369
Fax	+1 800-215-7782
Website	Not Available
Email	info.ex@leybold.com

Emergency phone number

• • •	
Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	+1 855-237-5573 (ID#: 5317-45)
Other emergency telephone number(s)	+61 3 9573 3188

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Non hazardous

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

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Hazard statement(s)

Not Applicable

Hazard(s) not otherwise classified

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

No further product hazard information.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64742-54-7.	100	paraffinic distillate, heavy, hydrotreated (severe)
Not Available		(DMSO <3% w/w - IP346)

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

SECTION 4 First-aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If failure/misuse of high pressure/hydraulic equipment results in injection of grease/oil through the skin seek urgent medical attention. Treat as surgical emergency.
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.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

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- Foam.
- Dry chemical powder.
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility

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

Special protective equipment and precautions for fire-fighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.
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.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	Moderate hazard. ► Clear area of personnel and move upwind. ► Alert Fire Brigade and tell them location and nature of hazard. ► Wear breathing apparatus plus protective gloves.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
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 contamination of water, foodstuffs, feed or seed. • Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

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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

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

Ingredient	Original IDLH	Revised IDLH
paraffinic distillate, heavy, hydrotreated (severe)	2,500 mg/m3	Not Available

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

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]

▶ Wear general protective gloves, eg. light weight rubber gloves.

• 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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

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

No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Barrier cream.
- ▶ Eyewash unit.

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 deaC)

- 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.

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• 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	Amber liquid, slight hydrocarbon odou	ır	
Physical state	Liquid	Relative density (Water = 1)	0.879
Odour	Not Available	Partition coefficient n- octanol / water	>3
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-12 (pour pt)	Viscosity (cSt)	94 @ 40C; 10.6@100C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	268 (COC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	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
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

a) Acute Toxicity	Based on available data, the classification criteria are not met.
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.
c) Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.
e) Mutagenicity	Based on available data, the classification criteria are not met.
f) Carcinogenicity	Based on available data, the classification criteria are not met.
g) Reproductivity	Based on available data, the classification criteria are not met.

Serious Eye

Damage/Irritation

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i) STOT - Repeated	Based on available data, the classification criteria are not met.			
Exposure	Based on available data, the classification criteria are not met.			
j) Aspiration Hazard	Based on available data, the classification criteria are not met.			
Inhaled	The material is not thought to produce adverse health effects or i using animal models). Nevertheless, good hygiene practice requi control measures be used in an occupational setting. Inhalation of oil droplets or aerosols may cause discomfort and m	ires that exposur	e be kept to a minimum and that suitable	
Ingestion	The material has NOT been classified by EC Directives or other of the lack of corroborating animal or human evidence.	classification sys	tems as "harmful by ingestion". This is because	
Skin Contact	allergic contact dermatitis. The material is unlikely to produce an	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		
Eye	Although the liquid is not thought to be an irritant (as classified by transient discomfort characterised by tearing or conjunctival redn			
Chronic	Principal routes of exposure are by accidental skin and eye contatemperatures. Oil may contact the skin or be inhaled. Extended exposure can leface and warts on the soles of the feet. NOTE L: The classification as a carcinogen need not apply if it cates as measured by IP 346. European Union (EU) List of harmonised classification and labelling No 1272/2008 (CLP) - up to the latest ATP	ead to eczema, ii	nflammation of hair follicles, pigmentation of the the substance contains less than 3% DMSO	
	TOVICITY	IDDITATION		
LEYBONOL LVO 100	TOXICITY Not Available	Not Available		
	TOXICITY	IRRITATION		
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye: no advers	se effect observed (not irritating) ^[1]	
hydrotreated (severe)	Inhalation (Rat) LC50: 2.18 mg/l4h ^[2]	Skin: no adver	se effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: >5000 mg/kg ^[2]			
Legend:	1. Value obtained from Europe ECHA Registered Substances - A	Cute toxicity 2 \	Value obtained from manufacturer's SDS	
20gona.	Unless otherwise specified data extracted from RTECS - Registe			
LEYBONOL LVO 100	NOTE L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EV) No 1272/2008 (CLP) - up to the latest ATP			
	The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: • The adverse effects of these materials are associated with undesirable components, and • The levels of the undesirable components are inversely related to the degree of processing; • Distillate base oils receiving the same degree or extent of processing will have similar toxicities; • The potential toxicity of residual base oils is independent of the degree of processing the oil receives. • The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size. Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-ir			
PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE)	The potential toxicity of a specific distillate base oil is inversely re undergone, since: • The adverse effects of these materials are associated with undersome in the levels of the undesirable components are inversely related. • Distillate base oils receiving the same degree or extent of proceding in the potential toxicity of residual base oils is independent of the expectation of the e	esirable compon to the degree of proce se oils is inversel levels of undesir nacer-causing and wery low mammer were sults, suppen-bioavailable dunave low acute to weight and the mg/L. The materiting for sensitisat	erity or extent of processing the oil has ents, and processing; similar 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 and 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. excicities. semilethal dose by skin contact is >2g/kg bod als have varied from "non-irritating" to	
HEAVY, HYDROTREATED (SEVERE)	The potential toxicity of a specific distillate base oil is inversely re undergone, since: • The adverse effects of these materials are associated with undersome in the levels of the undesirable components are inversely related. • Distillate base oils receiving the same degree or extent of procesing in the potential toxicity of residual base oils is independent of the interproductive and developmental toxicity of the distillate base. Unrefined & mildly refined distillate base oils contain the highest hydrocarbon molecules and have shown the highest potential care severely refined distillate base oils are produced from unrefined a components. In comparison to unrefined and mildly refined base smaller range of hydrocarbon molecules and have demonstrated mutation-causing and cancer-causing potential has shown negation biologically active components or the components are largely nor Toxicity testing has consistently shown that lubricating base oils from highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 million importance 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 studies in the semileted in animal studies in animal studies are carcinogenicity to humans.	esirable compon to the degree of proce se oils is inversel levels of undesirand mildly refine oils, the highly a very low mammive results, suppn-bioavailable dunave low acute to weight and the mg/L. The materiting for sensitisatinal testing.	erity or extent of processing the oil has ents, and processing; similar 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 and severely refined distillate base oils have a alian toxicity. Testing of residual oils for orting the belief that these materials lack let to their molecular size. excicities. semilethal dose by skin contact is >2g/kg bod als have varied from "non-irritating" to tion has been negative.	
HEAVY, HYDROTREATED	The potential toxicity of a specific distillate base oil is inversely re undergone, since: • The adverse effects of these materials are associated with undersome in the levels of the undesirable components are inversely related. • Distillate base oils receiving the same degree or extent of proceder in the potential toxicity of residual base oils is independent of the interproductive and developmental toxicity of the distillate base Unrefined & mildly refined distillate base oils contain the highest of hydrocarbon molecules and have shown the highest potential can severely refined distillate base oils are produced from unrefined a components. In comparison to unrefined and mildly refined base smaller range of hydrocarbon molecules and have demonstrated mutation-causing and cancer-causing potential has shown negation biologically active components or the components are largely nor Toxicity testing has consistently shown that lubricating base oils. For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 n "moderately irritating" when tested for skin and eye irritation. Test 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 studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or limited in animal studence of carcinogenicity may be inadequate or l	esirable compon to the degree of proce se oils is inversel levels of undesir nacer-causing and wery low mammer were sults, suppen-bioavailable dunave low acute to weight and the mg/L. The materiting for sensitisat	erity or extent of processing the oil has ents, and processing; similar 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 and 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. excicities. semilethal dose by skin contact is >2g/kg bod als have varied from "non-irritating" to	

STOT - Single Exposure

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Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X − Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
LEYBONOL LVO 100	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	>1000mg/l	1
paraffinic distillate, heavy, hydrotreated (severe)	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
nyuron cateu (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
Legend:	4. US EPA, Ec	1. IUCLID Toxicity Data 2. Europe ECHA I otox database - Aquatic Toxicity Data 5. EC on Data 7. METI (Japan) - Bioconcentration	CETOC Aquatic Hazard Assessment Date	•	-

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

Mobility in soil

Ingredient	lobility	
	No Data available for all ingredients	

Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

SECTION 13 Disposal considerations

Waste treatment methods

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)

Product / Packaging disposal

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.

SECTION 14 Transport information

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Labels Required

Marine Pollutant	NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7. Maritime transport in bulk according to IMO instruments

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
paraffinic distillate, heavy, hydrotreated (severe)	Not Applicable

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
paraffinic distillate, heavy, hydrotreated (severe)	Not Applicable

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 - Pennsylvania - Hazardous Substance List

US DOE Temporary Emergency Exposure Limits (TEELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

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

Additional Regulatory Information

Section 311/312 hazard categories

Acute toxicity (any route of

exposure)

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Flammable (Gases, No Aerosols, Liquids, or Solids) Gas under pressure No Explosive No Self-heating No Pyrophoric (Liquid or Solid) No Pyrophoric Gas No Corrosive to metal Nο Oxidizer (Liquid, Solid or No Organic Peroxide No Self-reactive No In contact with water emits No flammable gas Combustible Dust No Carcinogenicity Nο

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Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
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

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

None Reported

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65



WARNING: . For more information, go to www.P65Warnings.ca.gov

Not Applicable

National Inventory Status

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (paraffinic distillate, heavy, hydrotreated (severe))			
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			
UAE - Control List (Banned/Restricted Substances)	No (paraffinic distillate, heavy, hydrotreated (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. These ingredients may be exempt or will require registration.			

SECTION 16 Other information

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Version	Date of Update	Sections Updated
10.1	04/10/2021	Physical and chemical properties - Appearance, Hazards identification - Classification
11.1	22/04/2024	Hazards identification - Classification, Korean MSDS Number

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
- ▶ MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- ▶ IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
- ▶ 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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