

# **Leybonol LVO 702**

# Leybold USA Inc.

Chemwatch: **5645-55** Version No: **3.1** 

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

Initial Date: **27/11/2023** Revision Date: **12/12/2023** 

Print Date: **06/11/2025** S.GHS.USA.EN.E

## **SECTION 1 Identification**

## **Product Identifier**

Product name	Leybonol LVO 702	
Synonyms	0201; L70202; L70205; L70220; L70299	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

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

Relevant identified uses	Industrial use. Professional use.
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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	5 Enterprise Drive Export, PA 15632 United States		
Telephone	0-764-5369		
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)	855-237-5573 (ID#: 5645-55)	
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

Reproductive Toxicity Category 2

# Label elements



Page 2 of 11

Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

Signal word

Warning

## Hazard statement(s)

H361 Suspected of damaging fertility or the unborn child.

# Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) Prevention

· · · · · · · · · · · · · · · · · · ·	•		
P201	Obtain special instructions before use.		
P280	Wear protective gloves and protective clothing.		
P202	Do not handle until all safety precautions have been read and understood.		

## Precautionary statement(s) Response

P308+P313 | IF exposed or concerned: Get medical advice/ attention.

# Precautionary statement(s) Storage

P405 Store locked up.

# Precautionary statement(s) Disposal

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

No further product hazard information.

# **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

# **Mixtures**

CAS No	%[weight]	Name
68411-46-1	<1	octylated diphenylamines

# **SECTION 4 First-aid measures**

# Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

# 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**

# Extinguishing media

- ▶ Foam.
- Dry chemical powder.

Page 3 of 11

Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

- Carbon dioxide
- Water spray or fog Large fires only.

Do not use water jets.

#### 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

#### • Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Fire Fighting 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. 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: Fire/Explosion Hazard carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. 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 · Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Safe handling Prevent concentration in hollows and sumps. ▶ DO NOT allow clothing wet with material to stay in contact with skin General Exhaust Ventilation adequate. Local Exhaust Ventilation recommended. Store in original containers. Keep containers securely sealed. ▶ No smoking, naked lights or ignition sources. Other information Store in a cool, dry, well-ventilated area. Store away from heat. Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

Suitable	container

- ▶ Packaging as recommended by manufacturer.
- Check that containers are clearly labelled and free from leaks

#### Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

# 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.
- · Oil leaks in a pressurized circuit may result in a fine flammable spray (the lower flammability limit for oil mist is reached for a concentration of about 45 g/m3
- · Autoignition temperatures may be significantly lower under particular conditions (slow oxidation on finely divided materials..
- Avoid reaction with oxidising agents
- Avoid storage with reducing 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	octylated diphenylamines	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	octylated diphenylamines	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	octylated diphenylamines	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	octylated diphenylamines	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	octylated diphenylamines	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
Leybonol LVO 702	Not Available	Not Available	Not Available
Ingradient	Original IDL H	Povisod	ווחו וו

Ingredient	Original IDLH	Revised IDLH
octylated diphenylamines	Not Available	Not Available

# **Exposure controls**

# Appropriate engineering controls

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

The basic types of engineering controls are:

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

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

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

- ► Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

# NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Hands/feet protection
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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.

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# **Body protection**

See Other protection below

Chemwatch: **5645-55** Page **5** of **11**Version No: **3.1** 

#### Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023

Print Date: 06/11/2025

Other protection

- Overalls.
- P.V.C apron.
- ▶ Barrier cream.
- Skin cleansing cream.

Do not store in direct sunlight.

#### Respiratory protection

Type A 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	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

#### ^ - 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)

- Latridge 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	Light brown		
		Deletion denette (Meter	
Physical state	Liquid	Relative density (Water = 1)	0.91 @15C (ASTM D 4052)
Odour	Characteristic	Partition coefficient n- octanol / water	Not Available
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)	Not Available	Viscosity (cSt)	32.3 @40C (ASTM D 445)
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	214 (ASTM D92)	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	Not Available	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**

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

Information on toxi	cological	effects
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Chronic	Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.  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.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  Inhalation hazard is increased at higher temperatures.  Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.
j) Aspiration Hazard	Based on available data, the classification criteria are not met.
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.
g) Reproductivity	There is sufficient evidence to classify this material as toxic to reproductivity
f) Carcinogenicity	Based on available data, the classification criteria are not met.
e) Mutagenicity	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.
c) Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.
a) Acute Toxicity	Based on available data, the classification criteria are not met.

L audi au al IIVO 700	TOXICITY	IRRITATION	
Leybonol LVO 702	Not Available	Not Available	
	TOXICITY	IRRITATION	
octylated diphenylamines	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
Legend:	Value obtained from Europe ECHA Registered Sul	bstances - Acute toxicity 2. Value obtained from manufacturer's SDS.	
	Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

# OCTYLATED DIPHENYLAMINES

Potential sensitiser producing contact allergies.

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.

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

Chemwatch: **5645-55** Page **7** of **11** 

#### Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

irritation with dizziness and flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	✓
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
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**

Version No: 3.1

	Endpoint	Test Duration (hr)	Species	Value	Source
Leybonol LVO 702	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
octylated diphenylamines	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	EC50	48h	Crustacea	51mg/l	2
	EC50	96h	Algae or other aquatic plants	870mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	0.06mg/l	2
	LC50	96h	Fish	>100mg/l	2
Legend:		1 1. IUCLID Toxicity Data 2. Europe ECHA F	_	· · · · · · · · · · · · · · · · · · ·	-
	<ol> <li>US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data</li> </ol>				

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
octylated diphenylamines	HIGH	HIGH

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
octylated diphenylamines	LOW (BCF = 5.5)

# Mobility in soil

Ingredient	Mobility
octylated diphenylamines	LOW (Log KOC = 28640000)

#### Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

# **SECTION 13 Disposal considerations**

## Waste treatment methods

# Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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

Page 8 of 11

Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

- 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.

#### **SECTION 14 Transport information**

#### **Labels Required**

Marine Pollutant	NO

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

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

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

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
octylated diphenylamines	Not Applicable

# 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
octylated diphenylamines	Not Applicable

## **SECTION 15 Regulatory information**

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

# octylated diphenylamines is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

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

US OSHA Permissible Exposure Limits (PELs) Table Z-3

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

# **Additional Regulatory Information**

Not Applicable

## **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

# Page 9 of 11

# Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

0	N.
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	Yes
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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Not Applicable

## **National Inventory Status**

National Inventory Status				
National Inventory	Jialus			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (octylated diphenylamines)			
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			

#### Leybonol LVO 702

Initial Date: 27/11/2023 Revision Date: 12/12/2023 Print Date: 06/11/2025

National Inventory	Status
UAE - Control List (Banned/Restricted Substances)	No (octylated diphenylamines)
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	12/12/2023
Initial Date	27/11/2023

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	12/12/2023	Physical and chemical properties - Appearance, Handling and storage - Handling Procedure, Exposure controls / personal protection - Personal Protection (other), Identification of the substance / mixture and of the company / undertaking - Use

#### 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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# Page 11 of 11

Leybonol LVO 702

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