# Leybold

# **LEYBONOL LVO 700**

# Leybold UK LTD

Version No: 2.2 Safety Data Sheet (Conforms to Regulation (EU) No 2015/830) Chemwatch Hazard Alert Code: 2

Issue Date: **10/08/2018** Print Date: **10/08/2018** S.REACH.GBR.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

# 1.1. Product Identifier

Product name	LEYBONOL LVO 700
Synonyms	L70001;L70002;L70005;L70020
Other means of identification	Not Available

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

Relevant identified uses	Lubricant.
Uses advised against	Not Applicable

# 1.3. Details of the supplier of the safety data sheet

Registered company name	Leybold UK LTD
Address	Unit 9, Silverglade Business Park, Leatherhead Road Chessington KT9 2QL United Kingdom
Telephone	+44 1372 737300
Fax	+44 1372 737301
Website	Not Available
Email	service.In@leybold.com

# 1.4. Emergency telephone number

Association / Organisation	Chemwatch
Emergency telephone numbers	+800 2436 2255
Other emergency telephone numbers	Not Available

# CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
+800 2436 2255	+800 2436 2255	+612 9186 1132

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

# SECTION 2 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.

Classification according	
to regulation (EC) No	H412 - Chronic Aquatic Hazard Category 3
1272/2008 [CLP] <sup>[1]</sup>	

Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
2.2. Label elements	
Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE
Hazard statement(s)	
H412	Harmful to aquatic life with long lasting effects.
H412 Supplementary stateme EUH208	
Supplementary stateme EUH208	nt(s) Contains phenyl-alpha-naphthylamine. May produce an allergic reaction.
Supplementary stateme	nt(s) Contains phenyl-alpha-naphthylamine. May produce an allergic reaction.
Supplementary stateme EUH208 Precautionary statemen P273	nt(s) Contains phenyl-alpha-naphthylamine. May produce an allergic reaction. t(s) Prevention Avoid release to the environment.
Supplementary stateme EUH208 Precautionary statemen P273 Precautionary statemen Not Applicable	nt(s) Contains phenyl-alpha-naphthylamine. May produce an allergic reaction. t(s) Prevention Avoid release to the environment. t(s) Response
Supplementary stateme EUH208 Precautionary statemen P273 Precautionary statemen Not Applicable Precautionary statemen	nt(s) Contains phenyl-alpha-naphthylamine. May produce an allergic reaction. t(s) Prevention Avoid release to the environment. t(s) Response t(s) Storage

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# 3.1.Substances

See 'Composition on ingredients' in Section 3.2

# 3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.128-37-0* 2.204-881-4 3.Not Available 4.01-2119480433-40-XXXX	0.25-<2.5	2.6-di-tert-butyl- 4-methylphenol	Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1; H400, H410 [1]
1.90-30-2 2.201-983-0 3.Not Available 4.01-2119488704-27-XXXX	0.25-<1	phenyl-alpha- naphthylamine	Acute Tox. 4, Skin Sensitizer Category 1, Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1; H302, H317, H373, H400, H410 <sup>[3]</sup>
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L * EU IOELVs available		ification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn

# SECTION 4 FIRST AID MEASURES

# 4.1. 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.	
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Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
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>

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5 FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

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

# 5.2. Special hazards arising from the substrate or mixture

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#### 5.3. Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit irritating/ toxic fumes.</li> </ul>

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

## 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

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

#### SECTION 7 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Fire and explosion protection	See section 5
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> </ul>

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

# 7.3. Specific end use(s)

See section 1.2

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# 8.1. Control parameters

#### DERIVED NO EFFECT LEVEL (DNEL)

Not Available

# PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure	2,6-di-tert-butyl-	2,6-Di-tert-butyl-	10	Not	Not	Not
Limits (WELs)	4-methylphenol	p-cresol	mg/m3	Available	Available	Available

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Ingredient	Material name	Material name		TEEL-2	TEEL-3
2,6-di-tert-butyl- 4-methylphenol	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade p-cresol)	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT (food grade); 2,6-Di-tert-butyl- p-cresol)		29 mg/m3	180 mg/m3
Ingredient	Original IDLH	Revised IDLH			
2,6-di-tert-butyl- 4-methylphenol	Not Available	Not Available			
phenyl-alpha- naphthylamine	Not Available	Not Available			

#### 8.2. Exposure controls

8.2.1. 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.
8.2.2. Personal protection	

Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>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.</li> <li>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.</li> <li>Personal hygiene is a key element of effective hand care.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> </ul>

# **Respiratory protection**

# 8.2.3. Environmental exposure controls

See section 12

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Appearance	Appearance Yellow liquid with characteristic odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	0.904
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	31.3 @ 40C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	222	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 (g/L)	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### 9.2. Other information

Not Available

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10.1.Reactivity	See section 7.2
10.2. 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>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

## SECTION 11 TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

LEYBONOL LVO 700	ΤΟΧΙΟΙΤΥ	IRRITA	TION
	Not Available	Not Av	vailable
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 2000 mg/kg * <sup>[2]</sup>	Eye	(rabbit): 100 mg/24h-moderate
2,6-di-tert-butyl- 4-methylphenol	Oral (rat) LD50: 2000 mg/kg * <sup>[2]</sup>	Skin	n (human): 500 mg/48h - mild
	Oral (rat) LD50: 890 mg/kg <sup>[2]</sup>	Skin	n (rabbit):500 mg/48h-moderate
	Oral (woman) TDLo: 80 mg/kg <sup>[2]</sup>		
	ΤΟΧΙΟΙΤΥ		IRRITATION
phenyl-alpha- naphthylamine	Oral (rat) LD50: >200<2000 mg/kg <sup>[1]</sup>		Eye(rabbit): slight irritant *
napittiylanine			Skin (rabbit): non-irritating *
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>		

2,6-di-tert-butyl- 4-methylphenol	for bridged alkyl phenols: Acute toxicity: Acute oral and dermal toxicity data are available for all but two of the substances in the group. The data show that acute toxicity of these substances is low. The testing for acute toxicity spans five decades <b>Repeat dose toxicity:</b> Repeat dose studies on the members of this category include both subchronic and chronic exposures. The liver is identified as the target organ in rats for all of the substances tested. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Data show that acute toxicity following oral and topical use of hindered phenols is low. They are not proven to cause mutations. However, long term use may affect the liver, thyroid, kidney and lymph nodes. Liver tumours have been reported. The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. <b>NOTE:</b> Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing

# damage or change to cellular DNA.

	a wheat seedling medium in aerobic condition This is a reactive particle that may damage co- microsomal lipid peroxidation was observed in of BHT to exert prooxidant effects at high cor- stress in several animals and fungi in order to reported that at high aeration rate, BHT can re- present, yielding BHT-phenoxyl radical and su- recycling which can be a critical factor depend BHT-phenoxyl radical has been reported to be metabolites should be taken into account; sor BHT-Q and BHT-QM, can act as prooxidant. A of intermediate metabolites have been identific conditions and on the animal species. Althoug not been studied, after submission of a fluid of digestion model, both these were detected in metabolite could remain bioaccessible for inter-	of BHT to mice and rats. Toxic nly a few studies have focused (syn: 2,6-di-tert-butyl-1,4-methy h is considered to play a signific ras reported that another quinon thexadien-1-one, CAS RN: 1247 orincipal metabolite responsible dant effects under certain conditions, an enhancement of the gener ellular structures at high concen n rats fed with diets containing for contrations, it has been used to o study the protective effects of eact with molecular oxygen rath uperoxide anion. In addition, the ding on the reductant involved H e relatively stable. Furthermore, me studies reported that not on As BHT undergoes several react ied. However, their nature and co gh the changes undergone by B deep-frying fat containing BHT at the digested samples. These re estinal absorption. Studies conce potent inducer of the microsoma chrome P450. Studies have rep tte oral toxicity, although this is	effects may be attributed more to BHT on their carcinogenicity and toxicity, and not vlene-2,5-cyclohexadien-1-one, CAS RN: cant role in hepatoxicity, pneumotoxicity, and e derivative, BHT-OH(t)QM (syn 2-tert-butyl- 755-19-7), is chemically more reactive than for lung tumor promotion activity of BHT in tons. Thus, when BHT was added in excess to ration rate of superoxide anion was observed. trations In addition, an increase in hepatic 0.2% of BHT for 30 days. Due to this ability of induce experimental models of oxidative f other compounds. Some authors have er than with the reactive oxygen species phenolic radical itself may undergo redox However, it has to be noted that the potential reactivity of BHT-derived y BHT but also its metabolites, such as ions during biotransformation, a large number oncentration depend on the environmental HT during in vivo digestion processes have and BHT-QM to an in vitro gastrointestinal sults indicate that BHT and its toxic erring BHT metabolism have shown that, al monooxygenase system and its major route orted potential toxicity derived from the considered low in animals, it must be noted		
PHENYL-ALPHA- NAPHTHYLAMINE	BHT (4 and 80 g without medical prescription) studies, it has been reported that BHT causes N-phenyl-1-naphthylamine is well absorbed a toxicity when swallowed and it did not cause i substance seems to affect the liver and kidn	s dose-related increase in the in and extensively excreted in the s irritation to the skin and eyes. H	cidence and severi tools. Animal testing showed it to have low owever, it caused skin sensitisation. The		
PHENYL-ALPHA- NAPHTHYLAMINE	* [Bayer] 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.				
2,6-di-tert-butyl- 4-methylphenol & PHENYL-ALPHA- NAPHTHYLAMINE	Asthma-like symptoms may continue for mor non-allergic condition known as reactive airw levels of highly irritating compound. Main crite a non-atopic individual, with sudden onset of exposure to the irritant. Other criteria for diag moderate to severe bronchial hyperreactivity inflammation, without eosinophilia.	ays dysfunction syndrome (RAL eria for diagnosing RADS includ persistent asthma-like sympton prosis of RADS include a revers	le the absence of previous airways disease in ns within minutes to hours of a documented ible airflow pattern on lung function tests,		
Acute Toxicity	$\otimes$	Carcinogenicity	$\otimes$		
Skin Irritation/Corrosion	0	Reproductivity	0		
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0		
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0		

Legend: 🗙 – Data available but does not fill the criteria for classification

Data available to make classification

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Aspiration Hazard

🚫 – Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

Mutagenicity

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# 12.1. Toxicity

LEYBONOL LVO 700	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
LETBONOL LVO 700	Not Available	Not Available	Not Available	Not Available	Not Available

#### LEYBONOL LVO 700

	ENDPOINT	TEST	DURATION (HR)	SPECIES		VALUE		SOURCE	
	LC50	50 96		Fish			>=0.57mg/L		1
2,6-di-tert-butyl-	EC50	50 48		Crusta	Crustacea		0.48mg/L		2
4-methylphenol	EC50	72		Algae or other aquatic plants		>0.4mg/L		2	
	EC0	48		Crustacea		>=0.31mg/L		1	
	NOEC	DEC 48		Crustacea		0.15mg/l	_	2	
phenyl-alpha-	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		SOURC	E
naphthylamine	Not Available	Not Available			Not Available	Not Availa	ble	Not Av	ailable
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. 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								

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.

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,6-di-tert-butyl- 4-methylphenol	HIGH	HIGH
phenyl-alpha- naphthylamine	HIGH	HIGH

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
2,6-di-tert-butyl- 4-methylphenol	HIGH (BCF = 2500)
phenyl-alpha- naphthylamine	HIGH (BCF = 2730)

## 12.4. Mobility in soil

Ingredient	Mobility
2,6-di-tert-butyl- 4-methylphenol	LOW (KOC = 23030)
phenyl-alpha- naphthylamine	LOW (KOC = 21390)

#### 12.5.Results of PBT and vPvB assessment

	P	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

#### 12.6. Other adverse effects

No data available

# SECTION 13 DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used</li> </ul>
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Sewage disposal options	Not Available
Waste treatment options	Not Available
	<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
	► Bury residue in an authorised landfill.
	Consult State Land Waste Management Authority for disposal.
	Recycle wherever possible or consult manufacturer for recycling options.
	<ul> <li>Where in doubt contact the responsible authority.</li> </ul>
	<ul> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> </ul>
	<ul> <li>It may be necessary to collect all wash water for treatment before disposal.</li> </ul>
	DO NOT allow wash water from cleaning or process equipment to enter drains.
	Use.
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended
	<ul> <li>Disposal (if all else fails)</li> </ul>
	► Recycling
	▶ Reuse
	Reduction
	A Hierarchy of Controls seems to be common - the user should investigate:
	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer t laws operating in their area. In some areas, certain wastes must be tracked.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.
	<ul> <li>to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where passible rates label warpings and SDS and sharp a clipper states participing to the product.</li> </ul>

# **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

14.1. UN number	Not Applicable				
14.2. UN proper shipping name	Not Applicable	Not Applicable			
14.3. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable				
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Not Applicable				
	Hazard identification (Kemler)	Not Applicable			
	Classification code	Not Applicable			
14.6. Special precautions for user	Hazard Label	Not Applicable			
	Special provisions	Not Applicable			
	Limited quantity	Not Applicable			

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

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk	Not Applicable Not Applicable		
	ERG Code	Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions		Not Applicable	

Continued...

# LEYBONOL LVO 700

Cargo Only Maximum Qty / Pack	Not Applicable
Passenger and Cargo Packing Instructions	Not Applicable
Passenger and Cargo Maximum Qty / Pack	Not Applicable
Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable
Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable

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

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class     Not Applicable       IMDG Subrisk     Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	EMS NumberNot ApplicableSpecial provisionsNot ApplicableLimited QuantitiesNot Applicable	

# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Classification codeNot ApplicableSpecial provisionsNot ApplicableLimited quantityNot ApplicableEquipment requiredNot ApplicableFire cones numberNot Applicable	

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

Not Applicable

# SECTION 15 REGULATORY INFORMATION

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

#### 2,6-DI-TERT-BUTYL-4-METHYLPHENOL(128-37-0\*) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU European Chemicals Agency (ECHA) Community Rolling Action Plan	European Customs Inventory of Chemical Substances ECICS (English)
(CoRAP) List of Substances	European Union - European Inventory of Existing Commercial Chemical
Europe European Customs Inventory of Chemical Substances - ECICS	Substances (EINECS) (English)
(Slovak)	International Agency for Research on Cancer (IARC) - Agents Classified
Europe European Customs Inventory of Chemical Substances ECICS	by the IARC Monographs
(Bulgarian)	UK Workplace Exposure Limits (WELs)
Europe European Customs Inventory of Chemical Substances ECICS	
(Czech)	
Europe European Customs Inventory of Chemical Substances ECICS	
(Romanian)	

PHENYL-ALPHA-NAPHTHYLAMINE(90-30-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

LEYBONOL LVO 700

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

#### 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

#### **National Inventory Status**

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (phenyl-alpha-naphthylamine; 2,6-di-tert-butyl-4-methylphenol)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

Revision Date	10/08/2018
Initial Date	10/08/2018

## Full text Risk and Hazard codes

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

#### 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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **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

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

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TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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