



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 32897

# LHM PLUS

Date of the previous version: 2015-05-22

Revision Date: 2015-12-07

Version 2.02

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

<b>Product name</b>	<b>LHM PLUS</b>
<b>Number</b>	529
<b>Substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Hydraulic oil, Brake fluid.
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#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71
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#### For further information, please contact:

<b>Contact Point</b>	HSE
<b>E-mail Address</b>	rm.msds-lubs@total.com

#### 1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)  
 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
 In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. -  
 MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard  
 Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de  
 Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel ( 15 )

### Section 2: HAZARDS IDENTIFICATION

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

##### REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

##### Classification\*\*\*

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008

Aspiration toxicity - **Category 1\*\*\*** - (H304)

Chronic aquatic toxicity - Category 3 - (H412)

Version EU



SDS # : 32897

**LHM PLUS**

Revision Date: 2015-12-07

Version 2.02

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

**Signal Word**

DANGER

H304 - May be fatal if swallowed and enters airways  
 H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements**

P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor  
 P331 - Do NOT induce vomiting  
 P405 - Store locked up  
 P501 - Dispose of contents/ container to an approved waste disposal plant\*\*\*

2.3. Other hazards**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.\*\*\*

**Environmental properties**

Should not be released into the environment.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture**Hazardous ingredients**

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Distillates (petroleum), hydrotreated light paraffinic***	265-158-7	01-2119487077-29	64742-55-8	30-50	Asp. Tox. 1 (H304)
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics***	934-954-2	01-2119826592-36	^	30-50	Asp. Tox. 1 (H304)
White mineral oil (petroleum)	232-455-8	no data available	8042-47-5	<10.5	Asp. Tox. 1 (H304)

Version EU



SDS # : 32897

**LHM PLUS**

Revision Date: 2015-12-07

Version 2.02

2,6-di-tert-butylphenol***	204-884-0	01-2119490822-33	128-39-2	<1	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)
tris(methylphenyl) phosphate***	215-548-8	01-2119531335-46	1330-78-5	<0.25	Repr. 2 (H361fd) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Triphenyl phosphate	204-112-2	01-2119457432-41	115-86-6	< 0.01	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## Section 4: FIRST AID MEASURES

## 4.1. Description of first-aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.***
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.***
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.***

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

<b>Eye contact</b>	Not classified.
<b>Skin contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	May be fatal if swallowed and enters airways. If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 4.3. Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

## 5.1. Extinguishing media

Version EU



SDS # : 32897

# LHM PLUS

Revision Date: 2015-12-07

Version 2.02

**Suitable Extinguishing Media** Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

## 5.2. Special hazards arising from the substance or mixture

**Special Hazard** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

## 5.3. Advice for fire-fighters

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

**Other information** Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

### 6.2. Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

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

**Methods for cleaning up** Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

**Personal Protective Equipment** See Section 8 for more detail.

**Waste treatment** See section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Version EU

SDS # : 32897

# LHM PLUS

Revision Date: 2015-12-07

Version 2.02

<b>Advice on safe handling</b>	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## 7.2. Conditions for safe storage, including any incompatibilities

<b>Technical measures/Storage conditions</b>	Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.
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<b>Materials to Avoid</b>	<b>Strong oxidizing agents.***</b>
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## 7.3. Specific end uses

<b>Specific use(s)</b>	No information available.
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## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

<b>Exposure limits</b>	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m <sup>3</sup> , NIOSH (REL) TWA 5 mg/m <sup>3</sup> , STEL 10 mg/m <sup>3</sup> , ACGIH (TLV) TWA 5 mg/m <sup>3</sup> (highly refined)
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<b>Legend</b>	See section 16
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### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8				5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation)
2,6-di-tert-butylphenol*** 128-39-2			2.77 mg/kg bw/day Dermal 19.6 mg/m <sup>3</sup> Inhalation	

Version EU

SDS # : 32897

# LHM PLUS

Revision Date: 2015-12-07

Version 2.02

tris(methylphenyl) phosphate*** 1330-78-5	1.11 mg/m <sup>3</sup> Inhalation 74 mg/kg/bw Dermal	16 mg/cm <sup>2</sup> Dermal	0.47 mg/m <sup>3</sup> Inhalation 3.33 mg/kg/bw Dermal	
Triphenyl phosphate 115-86-6			5.55 mg/kg bw/day Dermal 0.55 mg/m <sup>3</sup> Inhalation	

## DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8				1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation)
2,6-di-tert-butylphenol*** 128-39-2			1.67 mg/kg bw/day Oral 5.8 mg/m <sup>3</sup> Inhalation	
tris(methylphenyl) phosphate*** 1330-78-5	37 mg/kg/bw Dermal 0.28 mg/m <sup>3</sup> Inhalation 157.5 mg/kg/bw Oral	8 mg/cm <sup>2</sup> Dermal	1.67 mg/kg/bw Dermal 0.06 mg/m <sup>3</sup> Inhalation 0.03 mg/cm <sup>2</sup> Oral	
Triphenyl phosphate 115-86-6			2.77 mg/kg bw/day Dermal 0.14 mg/m <sup>3</sup> Inhalation 0.04 mg/kg bw/day Oral	

## Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
2,6-di-tert-butylphenol*** 128-39-2	0.00045 mg/l fw 0.000045 mg/l mw 0.0045 mg/l or	0.196 mg/kg dw fw 0.0196 mg/kg dw mw	0.0389 mg/kg dw		10 mg/l	
tris(methylphenyl) phosphate*** 1330-78-5	0.000146 mg/l fw 0.0000146 mg/l mw 0.00146 mg/l or	0.0404 mg/kg dw fw 0.00404 mg/kg dw mw	0.00000317 mg/kg dw		100 mg/l	0.67 mg/kg
Triphenyl phosphate 115-86-6	0.0037 mg/l fw 0.00037 mg/l mw 0.0025 mg/l or	0.2397 mg/kg fw dw 0.2397 mg/kg mw dw	0.0385 mg/kg dw		5 mg/l	0.833 mg/kg food

## 8.2. Exposure controls

### Occupational Exposure Controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

#### Personal Protective Equipment

##### General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Version EU



SDS # : 32897

# LHM PLUS

Revision Date: 2015-12-07

Version 2.02

<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
<b>Eye Protection</b>	If splashes are likely to occur, wear: Safety glasses with side-shields.
<b>Skin and body protection</b>	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
<b>Hand Protection</b>	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

## Environmental exposure controls

**General Information** The product should not be allowed to enter drains, water courses or the soil.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>		limpid***	
<b>Color</b>		Fluorescent yellowish-green	
<b>Physical State @20°C</b>		liquid	
<b>Odor</b>		Characteristic***	
<b>Odor Threshold</b>		No information available***	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH		Not applicable***	
Melting point/range ***	***	No information available***	
	***		
Boiling point/boiling range		No information available***	
Flash point	128 °C 262 °F		ASTM D 93 ASTM D 93
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper ***	***	No information available***	***
Lower ***	***	No information available***	***
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density ***	*** 0.836***	@ 15 °C***	ISO 12185***
Density	836 kg/m <sup>3</sup>	@ 15 °C	ISO 12185
Water solubility		Insoluble***	
Solubility in other solvents		No information available	
logPow		No information available***	

Version EU



SDS # : 32897

**LHM PLUS**

Revision Date: 2015-12-07

Version 2.02

Autoignition temperature		No information available	
Decomposition temperature ***	***	No information available***	***
Viscosity, kinematic	18 mm2/s	@ 40 °C	ISO 3104
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	No information available***		

9.2. Other information

Freezing Point ***	***	No information available***
***	***	

## Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information	No information available.***
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10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous Reactions	None under normal processing.
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10.4. Conditions to Avoid

Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.***
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10.5. Incompatible Materials

Materials to Avoid	Strong oxidizing agents.***
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10.6. Hazardous Decomposition Products

Hazardous Decomposition Products	None under normal use.
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## Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effectsAcute toxicity Local effects Product Information

Skin contact	. Not classified.
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Eye contact	. Not classified.
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Version EU



SDS # : 32897

# LHM PLUS

Revision Date: 2015-12-07

Version 2.02

<b>Inhalation</b>	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	. May be fatal if swallowed and enters airways. If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated light paraffinic***	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics***	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 3160mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5266 mg/m <sup>3</sup> (aerosol) (rat - OECD 403)
White mineral oil (petroleum)	> 5000 mg/kg ( Rat )	LD50 > 2000 mg/kg (Rabbit - OECD 402)	LC50 (4h) > 5 mg/l (Rat - aerosol - OECD 403)
2,6-di-tert-butylphenol***	> 5000 mg/kg ( Rat )	LD50 > 2000 mg/kg ( Rabbit )	
tris(methylphenyl) phosphate***	DL50 3700 mg/kg (Rat)	LD50 10000 mg/kg (Rabbit)	LD50 11.1 mg/l
Triphenyl phosphate	LD50 > 2000 mg/kg (Rat - OECD 401)	LD50 > 10000 mg/kg (Rabbit - OECD 401)	

## Sensitization

**Sensitization** Not classified as a sensitizer.

## Specific effects

**Carcinogenicity** This product is not classified carcinogenic.  
**Mutagenicity** This product is not classified as mutagenic.  
**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.

Chemical Name	European Union
tris(methylphenyl) phosphate*** 1330-78-5	Repr. 2 (H361fd)

## Repeated Dose Toxicity

**Subchronic toxicity** No information available.

## Target Organ Effects (STOT)

**Target Organ Effects (STOT)** No information available.

## Other information

**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Version EU



SDS # : 32897

**LHM PLUS**

Revision Date: 2015-12-07

Version 2.02

**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8	EL50 (72h) > 100 mg/l (Pseudokirchneriella subcapitata - OCDE 201)	EL50 (48h) > 10000 mg/L (Daphnia magna - OCDE 202)	LL50 (96h) > 100 mg/L (Oncorhynchus mykiss - OCDE 203)	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics*** ^	ErL50 (72h) > 10000 mg/l (Skeletonekema costatum - ISO 10253)	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	LL50 (96h) > 1028 mg/l (Scophthalmus maximus - OECD 203)	
White mineral oil (petroleum) 8042-47-5			LC50 (96h) > 10000 mg/L Lepomis macrochirus ()	
2,6-di-tert-butylphenol*** 128-39-2	EC50 (72h) 1.2 mg/l	EC50 (48h) = 0.45 mg/L Daphnia magna	LC50(96h) 1 mg/l (fish)	
tris(methylphenyl) phosphate*** 1330-78-5	EC50 (72h) 0.4 mg/l Desmodesmus subspicatus	LC50 (48h) 0.14 mg/l Daphnia magna	LC50 (96h) 0.6 mg/l	
Triphenyl phosphate 115-86-6	NOEC (72h) 0.25 - 2.5 mg/L (Pseudokirchnerella subcapitata - OECD 201) NOEC (72h) 0.25 - 2.5 mg/L (Desmodesmus subspicatus - OECD 201)	EC50 (48h) 0.36 mg/L (Chironomus riparius)	LC50 (96h) 0.4 mg/L (Oncorhynchus mykiss)	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8		NOEL (21d) 10 mg/l (Daphnia magna - OCDE 211)	NOEL (14/28d) >1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics*** ^		NOELR (21d) > 1000 mg/l (Daphnia magna - QSAR Petrotox)	NOELR (28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
2,6-di-tert-butylphenol*** 128-39-2			NOEC (28d) 0.3 mg/l (fish)	
tris(methylphenyl) phosphate*** 1330-78-5			NOEC (28d) 0.01 mg/l Oncorhynchus mykiss	
Triphenyl phosphate 115-86-6	NOEC (72h) 0.25 - 2.5 mg/l (Pseudokirchnerella subcapitata - OECD 201)	NOEC (21d) 0.254 mg/L (Daphnia magna - semi-static - OECD 211)	NOEC (90d) 0.0014 mg/L (Salmo gairdneri)	

Version EU



SDS # : 32897

**LHM PLUS**

Revision Date: 2015-12-07

Version 2.02

**Effects on terrestrial organisms**

No information available.\*\*\*

**12.2. Persistence and degradability****General Information**

No information available.

**12.3. Bioaccumulative potential****Product Information**

No information available.\*\*\*

**logPow**

No information available\*\*\*

**Component Information**

Chemical Name	log Pow
White mineral oil (petroleum) - 8042-47-5	6
2,6-di-tert-butylphenol*** - 128-39-2	4.48
tris(methylphenyl) phosphate*** - 1330-78-5	5.93
Triphenyl phosphate - 115-86-6	4.63

**12.4. Mobility in soil****Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.\*\*\*

**Air**

Loss by evaporation is limited.\*\*\*

**Water**

Insoluble. The product spreads on the surface of the water.\*\*\*

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

No information available.

**12.6. Other adverse effects****General Information**

No information available.\*\*\*

**Section 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.\*\*\*

Version EU



SDS # : 32897

**LHM PLUS**

Revision Date: 2015-12-07

Version 2.02

**EWC Waste Disposal No.**

The following Waste Codes are only suggestions: 13 01 10. 16 01 13. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.\*\*\*

## Section 14: TRANSPORT INFORMATION

<u>ADR/RID</u>	Not regulated
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<u>IMDG/IMO</u>	Not regulated
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<u>ICAO/IATA</u>	Not regulated
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<u>ADN</u>	Not regulated
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## Section 15: REGULATORY INFORMATION

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

European Union

Further information

No information available

### 15.2. Chemical Safety Assessment

<b>Chemical Safety Assessment</b>	No information available
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## Section 16: OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3**

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects



SDS # : 32897

## LHM PLUS

Revision Date: 2015-12-07

Version 2.02

### Abbreviations, acronyms

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

OECD = Organization for Economic Co-operation and Development

bw = body weight

bw/day = body weight/day

GLP = Good Laboratory Practice

fw = fresh water

mw = marine water

or = occasional release

dw = dry weight

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research of Cancer

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

NOAEL = No Observed Adverse Effect Level

EC x = Effect Concentration associated with x% response

### Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+ Sensitizer

\*\* Hazard Designation

M: Mutagen

\*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

Revision Date: 2015-12-07

Revision Note: \*\*\* Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet

Version EU