



MPM LHM Plus

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 04/03/2020 Revision date: 16/12/2024 Supersedes: 20/01/2023 version: 6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : MPM LHM Plus
UFI : JP6W-90AU-N000-X1MR
Product code : 25000
Type of product : Other engine, gear and lubricating oils.
Product group : Mixture

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

Relevant identified uses

Main use category : Professional use, Consumer use, Industrial use
Industrial/Professional use spec : Non-dispersive use
Used in closed systems
Function or use category : Lubricants and additives

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company BV
Cyclotronweg 1
NL 2629 HN Delft, Zuid Holland
Nederland
T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)
info@mpmoil.com, www.mpmoil.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, H412
Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

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CLP Signal word	: DANGER.
Contains	: Distillates (petroleum), hydrotreated middle
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P273 - Avoid release to the environment. P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. P501 - Dispose of contents/container in accordance with local and national regulations.

2.3. Other hazards

Other hazards not contributing to the classification : If spilled, may cause the floor to be slippery. Forms thin oil film on surface of water.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Tris(methylphenyl) phosphate (1330-78-5), 2,6-di-tert-butylphenol (128-39-2), naphthalene (91-20-3)(¹), Distillates (petroleum), hydrotreated middle (64742-46-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Tris(methylphenyl) phosphate (1330-78-5), 2,6-di-tert-butylphenol (128-39-2), naphthalene (91-20-3)(¹), Distillates (petroleum), hydrotreated middle (64742-46-7)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Distillates (petroleum), hydrotreated middle (64742-46-7), 2,6-di-tert-butylphenol (128-39-2), Tris(methylphenyl) phosphate (1330-78-5), naphthalene (91-20-3)(¹)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated middle (Note N)	CAS-No.: 64742-46-7 EC-No.: 934-954-2 REACH-no: 01-2119826592-36	$\geq 50 - \leq 75$	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic, Baseoil	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29	$\geq 25 - < 50$	Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,6-di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822-33	> 0 – < 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tris(methylphenyl) phosphate	CAS-No.: 1330-78-5 EC-No.: 809-930-9 REACH-no: 01-2119531335-46	> 0 – ≤ 0.3	Repr. 2, H361 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
naphthalene	CAS-No.: 91-20-3 EC-No.: 202-049-5	> 0 – < 0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
2,6-di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822-33	(35 ≤ C < 100) Skin Irrit. 2; H315

Note N: The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation : Not required.
After skin contact : Wash skin with mild soap and water.
After eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
After ingestion : Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical advice/attention.

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

After inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
After skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
After eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
After ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, powder, foam and CO2.

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Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.
Firefighting instructions : Use water spray or fog for cooling exposed containers.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : If spilled, may cause the floor to be slippery.

For non-emergency personnel

Protective equipment : Gloves. Safety glasses.
Emergency procedures : Do not breathe vapours.

For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Safety glasses.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.
Other information : Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Handling temperature : < 40 °C
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a closed container.
Storage conditions : Keep container closed when not in use.
Storage temperature : ≤ 40 °C
Storage area : Store in dry, well-ventilated area.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

naphthalene (91-20-3)

EU - Indicative Occupational Exposure Limit (IOEL)

IOELV TWA (mg/m³)	50 mg/m³
IOELV TWA (ppm)	10 ppm

DNEL and PNEC

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

8.2. Exposure controls

Appropriate engineering controls

Technical measures:

No additional information available.

Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety goggles

Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Green.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available

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Freezing point	: Not available
Boiling point	: > 316 °C
Flammability (solid, gas)	: Not available
Lower explosion limit	: 7 vol %
Upper explosion limit	: 9 vol %
Flash point	: > 105 °C ASTM D 93
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 18 (17 – 19) mm ² /s @ 40°C (ISO 3104)
Solubility	: Slightly soluble, the product remains on the water surface.
Log Kow	: Not available
Vapour pressure	: < 0.013 kPa
Vapour pressure at 50°C	: Not available
Density	: 837 (831 – 841) kg/m ³ @ 15°C (ISO 12185)
Relative density	: 0.831 (≥ 0.841) @ 15°C (ISO 12185)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizing agent.

10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx), sulphur compounds.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Keep under medical supervision for at least 48 hours.
Acute toxicity (dermal)	: If the products are injected under the skin under high pressure, this can have very serious consequences, even if there is no visible symptom or injury.
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met.)

Distillates (petroleum), hydrotreated light paraffinic, Baseoil (64742-55-8)	
LD50 oral rat	> 5000 mg/kg OECD 420
LD50 dermal rabbit	> 5000 mg/kg OECD 402

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Distillates (petroleum), hydrotreated light paraffinic, Baseoil (64742-55-8)	
LC50 Inhalation - Rat	> 5 mg/l/4h OECD 403
Tris(methylphenyl) phosphate (1330-78-5)	
LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	10000 mg/kg
LC50 Inhalation - Rat	11.1 mg/l
ATE CLP (oral)	3700 mg/kg bodyweight
ATE CLP (dermal)	10000 mg/kg bodyweight
ATE CLP (vapours)	11.1 mg/l/4h
ATE CLP (dust,mist)	11.1 mg/l/4h
2,6-di-tert-butylphenol (128-39-2)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 10000 mg/kg
naphthalene (91-20-3)	
LD50 oral rat	> 490 mg/kg
LD50 dermal rat	> 2200 mg/kg
LC50 Inhalation - Rat	> 500 mg/m ³ 8h
ATE CLP (oral)	500 mg/kg bodyweight
Distillates (petroleum), hydrotreated middle (64742-46-7)	
LD50 oral rat	> 5000 mg/kg Guideline OECD 401
LD50 dermal rabbit	> 2000 mg/kg Guideline OECD 402
LC50 Inhalation - Rat	20.1 mg/l 4hr.
ATE CLP (vapours)	20.1 mg/l/4h
ATE CLP (dust,mist)	20.1 mg/l/4h
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.)
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
Distillates (petroleum), hydrotreated middle (64742-46-7)	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure	: Not classified
2,6-di-tert-butylphenol (128-39-2)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight
Aspiration hazard	: May be fatal if swallowed and enters airways.
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Viscosity, kinematic	18 (17 – 19) mm ² /s @ 40°C (ISO 3104)

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11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated light paraffinic, Baseoil (64742-55-8)

EC50 Daphnia 1	> 10000 mg/l OECD 202
EC50 other aquatic organisms 1	> 100 mg/l OECD 201
EC50 96h - Algae [1]	> 100 mg/l OECD 203
NOEC chronic fish	> 1000 mg/l 14/21d (Oncorhynchus mykiss - SQAR Petrotox)
NOEC chronic crustacea	10 mg/l OECD 211

Tris(methylphenyl) phosphate (1330-78-5)

LC50 fish 1	0.6 mg/l
EC50 Daphnia 1	0.14 mg/l
EC50 72h - Algae [1]	0.4 mg/l Desmodesmus subspicatus
NOEC chronic fish	0.01 mg/l 28d (Oncorhynchus mykiss)

2,6-di-tert-butylphenol (128-39-2)

LC50 fish 1	1 mg/l
EC50 Daphnia 1	0.45 mg/l 48h
EC50 72h - Algae [1]	1.2 mg/l
LOEC (chronic)	0.086 mg/l Daphnia magna @21d
NOEC (chronic)	0.035 mg/l Daphnia magna @21d
NOEC chronic fish	0.3 mg/l 28d
NOEC chronic crustacea	0.035 mg/l 21d

naphthalene (91-20-3)

LC50 fish 1	≈ 1.6 mg/l Oncorhynchus mykiss
LC50 other aquatic organisms 2	2.16 mg/l @48h Daphnia magna
EC50 Daphnia 1	≈ 1.96 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	≈ 0.93 mg/l 30 min
EC50 other aquatic organisms 2	> 20 mg/l 18h

Distillates (petroleum), hydrotreated middle (64742-46-7)

EC50 72h - Algae [1]	22 mg/l
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12.2. Persistence and degradability

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Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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Distillates (petroleum), hydrotreated light paraffinic, Baseoil (64742-55-8)

Persistence and degradability	Rapidly degradable
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Tris(methylphenyl) phosphate (1330-78-5)

Persistence and degradability	Rapidly degradable
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2,6-di-tert-butylphenol (128-39-2)

Persistence and degradability	Rapidly degradable
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Biodegradation	≥ 12 – ≤ 24 % @28d
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naphthalene (91-20-3)

Persistence and degradability	Rapidly degradable
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Distillates (petroleum), hydrotreated middle (64742-46-7)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

2,6-di-tert-butylphenol (128-39-2)

Log Pow	4.5
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Tris(methylphenyl) phosphate (1330-78-5), 2,6-di-tert-butylphenol (128-39-2), naphthalene (91-20-3)(¹), Distillates (petroleum), hydrotreated middle (64742-46-7)
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Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Tris(methylphenyl) phosphate (1330-78-5), 2,6-di-tert-butylphenol (128-39-2), naphthalene (91-20-3)(¹), Distillates (petroleum), hydrotreated middle (64742-46-7)
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(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The product does not contain any substances with endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.

European List of Waste (LoW, EC 2000/532) : 13 01 13* - other hydraulic oils

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SECTION 14: Transport information

In accordance with ADR / IMDG

ADR	IMDG
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Not regulated	Not regulated
14.3. Transport hazard class(es)	
Not regulated	Not regulated
14.4. Packing group	
Not regulated	Not regulated
14.5. Environmental hazards	
Not regulated	Not regulated
No supplementary information available	

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
1.1	UFI on SDS 1.1	Modified
2.2	Precautionary statements (CLP)	Modified
3	Composition/information on ingredients	Modified
4.1	After inhalation	Modified

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or 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.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.