



# MPM Motor Oil 0W-40 High Performance S

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 13/06/2017 Revision date: 02/04/2024 Supersedes: 20/04/2022 version: 9.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : MPM Motor Oil 0W-40 High Performance S  
Product code : 06000S  
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](mailto:info@mpmoil.com), [www.mpmoil.com](http://www.mpmoil.com)

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

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

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

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Precautionary statements (CLP) : P102 - Keep out of reach of children.  
EUH-statements : EUH208 - Contains: C14-16-18 Alkylphenol. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII  
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  | Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4), C14-16-18 Alkylphenol (1190625-94-5) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4), C14-16-18 Alkylphenol (1190625-94-5) |

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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 | Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4), C14-16-18 Alkylphenol (1190625-94-5) |

## 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]    |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|
| Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) | CAS-No.: 93819-94-4<br>EC-No.: 298-577-9<br>REACH-no: 01-2119543726-33   | $\geq 1 - \leq 1.99$ | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 |
| C14-16-18 Alkylphenol                                                | CAS-No.: 1190625-94-5<br>EC-No.: 931-468-2<br>REACH-no: 01-2119498288-19 | $\geq 1 - \leq 1.99$ | Skin Sens. 1, H317<br>STOT RE 2, H373                              |

### Specific concentration limits:

| Name                                                                 | Product identifier                                                     | Specific concentration limits (%)                                                                                              |
|----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) | CAS-No.: 93819-94-4<br>EC-No.: 298-577-9<br>REACH-no: 01-2119543726-33 | (6.25 $\leq$ C < 100) Skin Irrit. 2; H315<br>(10 $\leq$ C < 12.5) Eye Irrit. 2; H319<br>(12.5 $\leq$ C < 100) Eye Dam. 1; H318 |

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.

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|                   |                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------|
| 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. |
| 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                                                                                               |

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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 :  $\leq 40^{\circ}\text{C}$   
Storage area : Store in dry, well-ventilated area.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL and PNEC

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m<sup>3</sup> 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.

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|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| Colour                          | : Amber.                                                      |
| Appearance                      | : Oily liquid.                                                |
| Odour                           | : Characteristic.                                             |
| Odour threshold                 | : Not available                                               |
| Melting point                   | : Not available                                               |
| Freezing point                  | : Not available                                               |
| Boiling point                   | : Not available                                               |
| Flammability (solid, gas)       | : Not available                                               |
| Lower explosion limit           | : Not available                                               |
| Upper explosion limit           | : Not available                                               |
| Flash point                     | : > 210 °C @ ASTM D92                                         |
| Auto-ignition temperature       | : Not available                                               |
| Decomposition temperature       | : Not available                                               |
| pH                              | : Not available                                               |
| Viscosity, kinematic            | : 80 mm <sup>2</sup> /s @ 40°C                                |
| Solubility                      | : Slightly soluble, the product remains on the water surface. |
| Log Kow                         | : Not available                                               |
| Vapour pressure                 | : Not available                                               |
| Vapour pressure at 50°C         | : Not available                                               |
| Density                         | : 844 kg/m <sup>3</sup> @ 15°C                                |
| Relative density                | : Not available                                               |
| 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

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

### 10.5. Incompatible materials

Strong oxidizing agent. Acids and bases.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)

|               |                               |
|---------------|-------------------------------|
| LD50 oral rat | 2600 mg/kg 67/548/EEG annex V |
|---------------|-------------------------------|

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| Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4) |                                   |
|-----------------------------------------------------------------------------------|-----------------------------------|
| LD50 dermal rabbit                                                                | > 3160 mg/kg bodyweight OECD 402  |
| LC50 Inhalation - Rat                                                             | > 2 mg/l 1h OECD 403 -read across |
| ATE CLP (oral)                                                                    | 2600 mg/kg bodyweight             |

|                                   |                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------|
| 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                                                                     |
| Carcinogenicity                   | : Not classified                                                                     |
| Reproductive toxicity             | : Not classified                                                                     |
| STOT-single exposure              | : Not classified                                                                     |
| STOT-repeated exposure            | : Not classified                                                                     |

| C14-16-18 Alkylphenol (1190625-94-5) |                                                                    |
|--------------------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure               | May cause damage to organs through prolonged or repeated exposure. |

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

| MPM Motor Oil 0W-40 High Performance S |                 |
|----------------------------------------|-----------------|
| Viscosity, kinematic                   | 80 mm²/s @ 40°C |

### 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

|                                                           |                  |
|-----------------------------------------------------------|------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4) |                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------|
| LC50 fish 1                                                                       | 4.5 mg/l OECD 203 (oncorhynchys mykiss, 96h) |
| EC50 Daphnia 1                                                                    | 5.4 mg/l OECD 202, (Daphnia magna, 72h)      |
| EC50 72h - Algae [1]                                                              | 2.1 mg/l Selenastrum capricornutum UTEX 1648 |

### 12.2. Persistence and degradability

| MPM Motor Oil 0W-40 High Performance S |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Persistence and degradability          | Not soluble in water, so only minimally biodegradable. |

| Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4) |                     |
|-----------------------------------------------------------------------------------|---------------------|
| Persistence and degradability                                                     | Rapidly degradable  |
| Biodegradation                                                                    | 1.5 % OECD 301B 28d |

| C14-16-18 Alkylphenol (1190625-94-5) |                    |
|--------------------------------------|--------------------|
| Persistence and degradability        | Rapidly degradable |

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### 12.3. Bioaccumulative potential

#### Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)

|         |           |
|---------|-----------|
| Log Pow | 0.9 @ 23C |
|---------|-----------|

### 12.4. Mobility in soil

#### MPM Motor Oil 0W-40 High Performance S

|      |                                   |
|------|-----------------------------------|
| Soil | Prevent soil and water pollution. |
|------|-----------------------------------|

#### Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)

|      |                        |
|------|------------------------|
| Soil | Adsorbs into the soil. |
|------|------------------------|

### 12.5. Results of PBT and vPvB assessment

#### MPM Motor Oil 0W-40 High Performance S

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### Component

|                                                                                               |                                                                                                                         |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4), C14-16-18 Alkylphenol (1190625-94-5) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4), C14-16-18 Alkylphenol (1190625-94-5) |

### 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 02 06\* - synthetic engine, gear and lubricating oils

## SECTION 14: Transport information

In accordance with ADR / IMDG

| ADR                                     | IMDG          |
|-----------------------------------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |
| Not regulated for transport             |               |
| <b>14.2. UN proper shipping name</b>    |               |
| Not regulated                           | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |
| Not regulated                           | Not regulated |

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| ADR                                    | IMDG          |
|----------------------------------------|---------------|
| <b>14.4. Packing group</b>             |               |
| Not regulated                          | Not regulated |
| <b>14.5. Environmental hazards</b>     |               |
| 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)

##### 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 chemical safety assessment has been carried out for the substance or the mixture by the supplier



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### SECTION 16: Other information

#### Indication of changes

| Section | Changed item                              | Comments |
|---------|-------------------------------------------|----------|
|         | Supersedes                                | Modified |
|         | Revision date                             | Modified |
| 1.1     | Trade name                                | Added    |
| 2.2     | EUH-statements                            | Added    |
| 2.2     | CLP Signal word                           | Added    |
| 2.2     | Hazard pictograms (CLP)                   | Added    |
| 2.2     | Hazard statements (CLP)                   | Added    |
| 2.2     | Precautionary statements (CLP)            | Added    |
| 3       | Composition/information on ingredients    | Modified |
| 11.1    | Reason for no classification              | Modified |
| 13.1    | European List of Waste (LoW, EC 2000/532) | Added    |
| 15.2    | Chemical safety assessment                | Added    |

#### Full text of H- and EUH-statements:

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2  |
| EUH208            | Contains: C14-16-18 Alkylphenol. May produce an allergic reaction. |
| EUH210            | Safety data sheet available on request.                            |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                      |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                      |
| H315              | Causes skin irritation.                                            |
| H317              | May cause an allergic skin reaction.                               |
| H318              | Causes serious eye damage.                                         |
| H319              | Causes serious eye irritation.                                     |
| H373              | May cause damage to organs through prolonged or repeated exposure. |
| H411              | Toxic to aquatic life with long lasting effects.                   |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                              |
| Skin Sens. 1      | Skin sensitisation, Category 1                                     |
| STOT RE 2         | Specific target organ toxicity – Repeated exposure, 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.