



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 081913

# QUARTZ 9000 ENERGY 0W-40

Date of the previous version: 2015-03-31

Revision Date: 2016-06-17

Version 2.01

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

#### 1.1. Product identifier

|                          |                                 |
|--------------------------|---------------------------------|
| <b>Product name</b>      | <b>QUARTZ 9000 ENERGY 0W-40</b> |
| <b>Number</b>            | <b>BY3</b>                      |
| <b>Substance/mixture</b> | <b>Mixture</b>                  |

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

|                        |            |
|------------------------|------------|
| <b>Identified uses</b> | Motor oil. |
|------------------------|------------|

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

|                 |  |
|-----------------|--|
| <b>Supplier</b> | TOTAL LUBRIFIANTS<br>562 Avenue du Parc de L'île<br>92029 Nanterre Cedex<br>FRANCE<br>Tél: +33 (0)1 41 35 40 00<br>Fax: +33 (0)1 41 35 84 71 |
|-----------------|--|

#### 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\*\*\*

Serious eye damage/eye irritation - Category 2\*\*\* - (H319)\*\*\*

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2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

**Signal Word**

WARNING\*\*\*

**Hazard Statements \*\*\***

H319 - Causes serious eye irritation\*\*\*

**Precautionary Statements**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P280 - Wear eye protection/ face protection\*\*\*

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**Chemical nature**

The product is made from refined mineral base oils and synthetic oils .

**Hazardous ingredients**

| Chemical Name  | EC-No        | REACH registration No | CAS-No     | Weight % | Classification (Reg. 1272/2008)                                       |
|--|--------------|-----------------------|------------|----------|---|
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated*** | -            | 01-2119486452-34      | 68037-01-4 | 40-<50   | Asp. Tox. 1 (H304)  |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***    | 276-738-4*** | 01-2119474889-13      | 72623-87-1 | 20-<30   | Asp. Tox. 1 (H304)  |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***    | 298-577-9*** | 01-2119543726-33      | 93819-94-4 | 1-<2.5   | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 2 (H411) |

**Additional information**

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.  
The product is made from synthetic base oils (Polyalphaolefins) .

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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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.***             |
| <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>  | Causes serious eye irritation.***  |
| <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>    | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.        |

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**Section 5: FIRE-FIGHTING MEASURES**5.1. Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable Extinguishing Media</b>   | Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog. |
| <b>Unsuitable Extinguishing Media</b> | Do not use a solid water stream as it may scatter and spread fire.       |

5.2. Special hazards arising from the substance or mixture

|                       |  |
|-----------------------|--|
| <b>Special Hazard</b> | 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. |
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### 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 material 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

**Advice on safe handling** 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.

**Prevention of fire and explosion** Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene measures** 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.

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

#### Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded 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.

#### Materials to Avoid

Strong oxidizing agents.

### 7.3. Specific end uses

#### Specific use(s)

No information available.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

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)

#### Legend

See section 16

#### DNEL Worker (Industrial/Professional)

| Chemical Name   | Short term, systemic effects | Short term, local effects | Long term, systemic effects                            | Long term, local effects                         |
|---|------------------------------|---------------------------|--|--|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***<br>72623-87-1 |                              |                           |  | 5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation) |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***<br>93819-94-4 |                              |                           | 0.58 mg/kg Dermal<br>8.31 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                          |
|---|------------------------------|---------------------------|---|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***<br>72623-87-1 |                              |                           |   | 1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation) |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***               |                              |                           | 0.29 mg/kg Dermal<br>2.11 mg/m <sup>3</sup> Inhalation<br>0.24 mg/kg Oral |   |

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|            |  |  |  |  |
|------------|--|--|--|--|
| 93819-94-4 |  |  |  |  |
|------------|--|--|--|--|

**Predicted No Effect Concentration (PNEC)**

| Chemical Name   | Water  | Sediment                                  | Soil                  | Air | STP      | Oral             |
|---|--|---|-----------------------|-----|----------|------------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***<br>72623-87-1 |  |   |                       |     |          | 9.33 mg/kg food  |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***<br>93819-94-4 | 0.004 mg/l fw<br>0.0046 mg/l mw<br>0.021 mg/l or | 0.0116 mg/kg dw fw<br>0.00116 mg/kg dw mw | 0.00528 mg/kg soil dw |     | 100 mg/l | 10.67 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.

**Respiratory protection**

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/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.\*\*\*

**Eye Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

**Hand Protection**

Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.\*\*\*

**Environmental exposure controls****General Information**

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

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

| Appearance                         |  | limpid***                   |                      |
|------------------------------------|--|-----------------------------|----------------------|
| Color                              |  | yellow                      |                      |
| Physical State @20°C               |  | liquid                      |                      |
| Odor                               |  | Characteristic              |                      |
| Odor Threshold                     |  | No information available    |                      |
| Property                           | Values   | Remarks                     | Method               |
| pH                                 |  | Not applicable***           |                      |
| Melting point/range                |  | Not applicable***           |                      |
| Boiling point/boiling range        |  | No information available    |                      |
| Flash point                        | > 200 °C<br>> 392 °F                               |                             |                      |
| 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                   | *** 0.844***                                       | @ 15 °C***                  |                      |
| Density                            | 844 kg/m <sup>3</sup>                              | @ 15 °C                     |                      |
| Water solubility                   |  | Insoluble                   |                      |
| Solubility in other solvents       |  | No information available    |                      |
| logPow                             | No information available***                        |                             |                      |
| Autoignition temperature           |  | No information available    |                      |
| Decomposition temperature          |  | No information available    |                      |
| Viscosity, kinematic               | 76.4 mm <sup>2</sup> /s<br>13.5 mm <sup>2</sup> /s | @ 40 °C<br>@ 100 °C         | ISO 3104<br>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.

## 10.2. Chemical stability

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**Stability** Stable under recommended storage conditions.10.3. Possibility of hazardous reactions**Hazardous Reactions** None under normal processing.10.4. Conditions to Avoid**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.10.5. Incompatible Materials**Materials to Avoid** Strong oxidizing agents.10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.**Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information**

**Skin contact** . Not classified.

**Eye contact** . **Causes serious eye irritation.\*\*\***

**Inhalation** . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion** . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**ATEmix (oral)** 21,505.00\*\*\* mg/kg\*\*\*

**ATEmix (dermal)** 20,725.00\*\*\* mg/kg\*\*\*

**ATEmix (inhalation-dust/mist)** 7.70\*\*\* mg/l\*\*\*

**Acute toxicity - Component Information**

| Chemical Name   | LD50 Oral                                | LD50 Dermal                                 | LC50 Inhalation                                  |
|---|--|---|--|
| Dec-1-ene, homopolymer, hydrogenated<br>Dec-1-ene, oligomers, hydrogenated*** | LD50 > 5000 mg/kg (Rat)                  | LD50 > 2000 mg/kg (Rat)                     | LC50 (4h) > 5.2 mg/l (Rat)                       |
| Lubricating oils (petroleum), C20-50,<br>hydrotreated neutral oil-based***    | LD50 > 5000 mg/kg bw (rat -<br>OECD 401) | LD50 > 5000 mg/kg bw (rabbit -<br>OECD 402) | LC50 (4h) > 5 mg/l (aerosol) (rat -<br>OECD 403) |
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis(dithiophosphate)***    | LD50 2600 mg/kg (Rat)                    | LD50 > 3160 mg/kg (Rabbit -<br>OECD 402)    |  |

**Sensitization****Sensitization** Not classified as a sensitizer.**Specific effects****Carcinogenicity** This product is not classified carcinogenic. During use in engines, contamination of oil with

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### Mutagenicity Reproductive toxicity

low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

This product is not classified as mutagenic.

This product does not present any known or suspected reproductive hazards.

### Repeated Dose Toxicity

#### Subchronic toxicity

No information available.

### Target Organ Effects (STOT)

### 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

Not classified.

### 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 |
|--|--|---|---|----------------------------|
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated***<br>68037-01-4 | EL50 (72h) > 1000 mg/l<br>(Scenedesmus capricornutum - OECD 201)   | EC50 (48h) 190 mg/l<br>(Daphnia magna)<br>LE50(48h) > 1000 mg/l<br>(Daphnia magna)  | LC50(96h) > 750 mg/l<br>(Pimephales promelas)<br>LL50(96h) > 1000 mg/l<br>(Pimephales promelas) |                            |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***<br>72623-87-1    | EL50 (48h) > 100 mg<br>(Pseudokirchnerella subcapitata - OECD 201) | EL50 (48h) > 10000 mg/l<br>(Daphnia magna - OECD 202)<br>LL50 (24h) > 10000 mg/l<br>(Gammarus pulex - OECD 202)<br>LL50 (48h) > 10000 mg/l<br>(Gammarus pulex - OECD 202)<br>LL50 (72h) > 10000 mg/l<br>(Gammarus pulex - OECD 202)<br>LL50 (96h) > 10000 mg/l<br>(Gammarus pulex - OECD 202) | LL50 (96h) > 100 mg/l<br>(Oncorhynchus mykiss - OECD 203)                                       |                            |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***                  | EbC50 (96h) 2.1 mg/l<br>Selenastrum capricornutum (OECD 201)       | EL50 (48h) 5.4 mg/l Daphnia magna (OECD 202)  | LC50 (96h) 4.5 mg/l<br>Oncorhynchus mykiss (OECD 203)   |                            |

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| 93819-94-4 |  |  |  |  |
|------------|--|--|--|--|

**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 |
|--|---|---|---|----------------------------|
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated***<br>68037-01-4 | NOELR (72h) 1000 mg/l<br>(Scenedesmus capricornutum - OECD 201)       | NOELR (21d) 125 mg/l<br>(Daphnia magna - OECD 211)  |   |                            |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***<br>72623-87-1    | NOEL (72h) >= 100 mg/l<br>(Pseudokirchnerella subcapitata - OECD 201) | NOEL (21d) 10 mg/l<br>(Daphnia magna - OECD 211)    | NOEL (14/28d) > 1000 mg/l<br>(Oncorhynchus mykiss - QSAR Petrotox)<br>NOEL (96h) > 100 mg/l<br>(Pimephales promelas - OECD 203) |                            |

**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 |
|---|---------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** -<br>72623-87-1 | 4.1     |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** -<br>93819-94-4 | 0.9     |

**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.

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12.6. Other adverse effects

**General Information** No information available.

|                                     |
|-------------------------------------|
| Section 13: DISPOSAL CONSIDERATIONS |
|-------------------------------------|

13.1. Waste treatment methods

|  |   |
|--|---|
| <b>Waste from Residues / Unused Products</b> | Should not be released into the environment. 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. |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal.  |
| <b>EWC Waste Disposal No.</b>                | The following Waste Codes are only suggestions: 13 02 05. 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 |
| <u>IMDG/IMO</u>  | Not regulated |
| <u>ICAO/IATA</u> | Not regulated |
| <u>ADN</u>       | Not regulated |

|                                    |
|------------------------------------|
| 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

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**15.2. Chemical Safety Assessment****Chemical Safety Assessment** No information available**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

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects\*\*\*

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

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

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

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

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

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

**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:** 2016-06-17**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**

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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