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

#### 1.1 Product identifier

| Trade name   | : | Shell Corena S3 R 46 |
|--------------|---|----------------------|
| Product code | : | 001D7782             |

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

| Use of the<br>Substance/Mixture | Compressor oil.  |
|---------------------------------|--|
| Uses advised against            | This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier. |

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

| Manufacturer/Supplier :                  | Shell UK Oil Products Limited<br>Shell Centre<br>London<br>SE1 7NA<br>United Kingdom                           |
|--|--|
| Telephone :<br>Telefax :                 | (+44) 08007318888  |
| Email Contact for Safety Data :<br>Sheet | If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com                    |
| 1.4 Emergency telephone number           | er in the second se |

: +44-(0) 151-350-4595

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

### 2.2 Label elements

| Labelling (REGULATION (EC) No 1272/2008) |   |   |
|--|---|---|
| Hazard pictograms                        | No Hazard Symbol required   |   |
| Signal word                              | No signal word  |   |
| Hazard statements                        | PHYSICAL HAZARDS:<br>Not classified as a physical hazar<br>according to CLP criteria. | ł |

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|--------------------------|--|--|--|
| Precautionary statements | : Prevention:<br>Response:<br>Storage: | HEALTH HAZARDS:<br>Not classified as a heal<br>criteria.<br>ENVIRONMENTAL HA<br>Not classified as enviro<br>according to CLP criteri<br>No precautionary phras | th hazard under CLP<br>ZARDS:<br>nmental hazard<br>a.<br>es. |
|                          | -                                      | No precautionary phras   | es.  |
|                          | Disposal:                              | No precautionary phras   | es.  |

# 2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

# **SECTION 3: Composition/information on ingredients**

# 3.2 Mixtures

| Т | <ul> <li>Highly refined mineral oils and additives.<br/>The highly refined mineral oil contains &lt;3% (w/w) DMSO-<br/>extract, according to IP346.</li> </ul>   |
|---|--|
|   | <ul> <li>* contains one or more of the following CAS-numbers<br/>(REACH registration numbers): 64742-53-6 (01-2119480375-<br/>34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-<br/>2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-<br/>0 (01-2119471299-27), 68037-01-4 (01-2119486452-34),</li> </ul> |

9 (01-000020163-82).

72623-86-0 (01-2119474878-16), 72623-87-1 (01-

2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-

### Hazardous components

| Chemical name | CAS-No.         | Classification    | Concentration |
|---------------|-----------------|-------------------|---------------|
|               | EC-No.          | (REGULATION       | [%]           |
|               | Registration    | (EC) No           |               |
|               | number          | 1272/2008)        |               |
| Alkaryl amine | 68411-46-1      | Aquatic Chronic3; | 1-3           |
|               | 270-128-1 / 01- | H412              |               |
|               | 2119491299-23   |                   |               |

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|--|--------------------------|-----------------------|
| Interchangeable low<br>viscosity base oil<br>(<20,5 cSt @40°C) * | Asp. Tox.1; H304 0 - 90  |                       |

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

| 4.1 Description of first aid measu   | ure | S   |
|--|-----|---|
| General advice   | :   | Not expected to be a health hazard when used under normal conditions.   |
| Protection of first-aiders   | :   | When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.                               |
| If inhaled   | :   | No treatment necessary under normal conditions of use.<br>If symptoms persist, obtain medical advice.   |
| In case of skin contact  | :   | Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.                      |
| In case of eye contact   | :   | Flush eye with copious quantities of water.<br>If persistent irritation occurs, obtain medical attention.   |
| If swallowed   | :   | In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.  |
| 4.2 Most important symptoms and effects, both acute and delayed                |     |   |
| Symptoms   | :   | Oil acne/folliculitis signs and symptoms may include formation<br>of black pustules and spots on the skin of exposed areas.<br>Ingestion may result in nausea, vomiting and/or diarrhoea. |
| 4.3 Indication of any immediate medical attention and special treatment needed |     |   |
| Treatment  | :   | Notes to doctor/physician:<br>Treat symptomatically.  |

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

| Suitable extinguishing media   | Foam, water spray or fog. Dry chemical powder, carbor dioxide, sand or earth may be used for small fires only. |  |
|--------------------------------|--|--|
| Unsuitable extinguishing media | Do not use water in a jet.   |  |
| Special hazards arising from   | e substance or mixture   |  |

# 5.2 Special hazards arising from the substance or mixture

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|---|---|--|
| Specific hazards during firefighting          | : Hazardous combustion products may<br>mixture of airborne solid and liquid pa<br>(smoke). Carbon monoxide may be e<br>combustion occurs. Unidentified orga<br>compounds.                                   | articulates and gases<br>volved if incomplete  |
| 5.3 Advice for firefighters                   |   |  |
| Special protective equipment for firefighters | : Proper protective equipment includin<br>gloves are to be worn; chemical resis<br>large contact with spilled product is e<br>Breathing Apparatus must be worn w<br>a confined space. Select fire fighter's | stant suit is indicated if<br>expected. Self-Contained<br>when approaching a fire in<br>clothing approved to |
| Specific extinguishing methods                | <ul> <li>relevant Standards (e.g. Europe: EN</li> <li>Use extinguishing measures that are circumstances and the surrounding e</li> </ul>  | appropriate to local   |

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : 6.1.1 For non emergency personnel: |
|----------------------|--------------------------------------|
|                      | Avoid contact with skin and eyes.    |
|                      | 6.1.2 For emergency responders:      |
|                      | Avoid contact with skin and eyes.    |

# 6.2 Environmental precautions

| Environmental precautions : Use appropriate containment to avoid er contamination. Prevent from spreading o ditches or rivers by using sand, earth, or barriers. |
|--|
|--|

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 | <ul> <li>Slippery when spilt. Avoid accidents, clean up immediately.<br/>Prevent from spreading by making a barrier with sand, earth<br/>or other containment material.<br/>Reclaim liquid directly or in an absorbent.<br/>Soak up residue with an absorbent such as clay, sand or other<br/>suitable material and dispose of properly.</li> </ul> |
|-------------------------|---|
|-------------------------|---|

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

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| SECTION 7: Handling and storage      |   |  |  |  |  |
|--------------------------------------|---|--|--|--|--|
| General Precautions                  | <ul> <li>Use local exhaust ventilation if there is risk of inhalation of<br/>vapours, mists or aerosols.</li> <li>Use the information in this data sheet as input to a risk<br/>assessment of local circumstances to help determine<br/>appropriate controls for safe handling, storage and disposal of<br/>this material.</li> </ul>     |  |  |  |  |
| 7.1 Precautions for safe handling    |   |  |  |  |  |
| Advice on safe handling              | <ul> <li>Avoid prolonged or repeated contact with skin.</li> <li>Avoid inhaling vapour and/or mists.</li> <li>When handling product in drums, safety footwear should be worn and proper handling equipment should be used.</li> <li>Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.</li> </ul> |  |  |  |  |
| Product Transfer                     | <ul> <li>This material has the potential to be a static accumulator.<br/>Proper grounding and bonding procedures should be used<br/>during all bulk transfer operations.</li> </ul>   |  |  |  |  |
| 7.2 Conditions for safe storage, inc | cluding any incompatibilities   |  |  |  |  |
| Other data                           | : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.   |  |  |  |  |
|                                      | Store at ambient temperature.   |  |  |  |  |
|                                      | Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.   |  |  |  |  |
|                                      | The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance may be obtained from the local environmental agency office.  |  |  |  |  |
| Packaging material                   | <ul> <li>Suitable material: For containers or container linings, use mild<br/>steel or high density polyethylene.<br/>Unsuitable material: PVC.</li> </ul>  |  |  |  |  |
| Container Advice                     | : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.  |  |  |  |  |
| 7.3 Specific end use(s)              |   |  |  |  |  |
| Specific use(s)                      | : Not applicable  |  |  |  |  |

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# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

| Components        | CAS-No. | Value type (Form of exposure) | Control parameters | Basis                                  |
|-------------------|---------|-------------------------------|--------------------|--|
| Oil mist, mineral |         | TWA                           | 5 mg/m3            | US. ACGIH<br>Threshold<br>Limit Values |

### Biological occupational exposure limits

No biological limit allocated.

#### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

#### 8.2 Exposure controls

**Engineering measures**The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

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Retain drain downs in sealed storage pending disposal or subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

| Eye protection           | If material is handled such that it could be splashed into eyes, protective eyewear is recommended.<br>Approved to EU Standard EN166.   |
|--------------------------|---|
| Hand protection          |   |
| Remarks                  | Where hand contact with the product may occur the use of<br>gloves approved to relevant standards (e.g. Europe: EN374,<br>US: F739) made from the following materials may provide<br>suitable chemical protection. PVC, neoprene or nitrile rubber<br>gloves Suitability and durability of a glove is dependent on<br>usage, e.g. frequency and duration of contact, chemical<br>resistance of glove material, dexterity. Always seek advice<br>from glove suppliers. Contaminated gloves should be<br>replaced. Personal hygiene is a key element of effective hand<br>care. Gloves must only be worn on clean hands. After using<br>gloves, hands should be washed and dried thoroughly.<br>Application of a non-perfumed moisturizer is recommended. |
|                          | For continuous contact we recommend gloves with<br>breakthrough time of more than 240 minutes with preference<br>for > 480 minutes where suitable gloves can be identified. For<br>short-term/splash protection we recommend the same, but<br>recognize that suitable gloves offering this level of protection<br>may not be available and in this case a lower breakthrough<br>time maybe acceptable so long as appropriate maintenance<br>and replacement regimes are followed. Glove thickness is not<br>a good predictor of glove resistance to a chemical as it is<br>dependent on the exact composition of the glove material.<br>Glove thickness should be typically greater than 0.35 mm<br>depending on the glove make and model.              |
| Skin and body protection | Skin protection is not ordinarily required beyond standard<br>work clothes.<br>It is good practice to wear chemical resistant gloves.   |
| Respiratory protection   | No respiratory protection is ordinarily required under normal   |
| 18                       | 800001016   |

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|                           | conditions of use.<br>In accordance with good industrial<br>precautions should be taken to ave<br>If engineering controls do not main<br>concentrations to a level which is a<br>health, select respiratory protection<br>specific conditions of use and mee<br>Check with respiratory protective e<br>Where air-filtering respirators are s<br>appropriate combination of mask a<br>Select a filter suitable for combined<br>and vapours [Type A/Type P boilin<br>meeting EN14387 and EN143. | bid breathing of material.<br>Itain airborne<br>adequate to protect worker<br>n equipment suitable for the<br>eting relevant legislation.<br>equipment suppliers.<br>suitable, select an<br>and filter.<br>d particulate/organic gases |
| Thermal hazards           | : Not applicable  |  |
| Hygiene measures          | : Exposure to this product should be<br>reasonably practicable. Reference<br>Health and Safety Executive's pub<br>Essentials".  | should be made to the  |
| Environmental exposure co | ntrols  |  |
| General advice            | : Take appropriate measures to fulfi<br>relevant environmental protection<br>contamination of the environment<br>Chapter 6. If necessary, prevent u<br>being discharged to waste water. V<br>treated in a municipal or industrial<br>before discharge to surface water.<br>Local guidelines on emission limits<br>must be observed for the discharg<br>vapour.  | legislation. Avoid<br>by following advice given in<br>undissolved material from<br>Waste water should be<br>waste water treatment plant<br>s for volatile substances   |

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

| Appearance      | : Liquid at room temperature. |
|-----------------|-------------------------------|
| Colour          | : light brown                 |
| Odour           | : Slight hydrocarbon          |
| Odour Threshold | : Data not available          |
| рН              | : Not applicable              |
| pour point      | : -30 °CMethod: ASTM D97      |
|                 |                               |

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|--|---|---------------------|
| Initial boiling point and boiling range    | : > 280 °Cestimated value(s)                |                     |
| Flash point                                | : 230 °C<br>Method: ASTM D92                |                     |
| Evaporation rate                           | : Data not available                        |                     |
| Flammability (solid, gas)                  | : Data not available                        |                     |
| Upper explosion limit                      | : Typical 10 %(V)                           |                     |
| Lower explosion limit                      | : Typical 1 %(V)                            |                     |
| Vapour pressure                            | : < 0.5 Pa (20 °C)<br>estimated value(s)    |                     |
| Relative vapour density                    | : > 1estimated value(s)                     |                     |
| Relative density                           | : 0.868 (15 °C)                             |                     |
| Density                                    | : 868 kg/m3 (15.0 °C)<br>Method: ASTM D1298 |                     |
| Solubility(ies)                            |   |                     |
| Water solubility                           | : negligible                                |                     |
| Solubility in other solvents               | : Data not available                        |                     |
| Partition coefficient: n-<br>octanol/water | : Pow: > 6(based on information or          | a similar products) |
| Auto-ignition temperature                  | : ><br>320 °C                               |                     |
| Viscosity                                  |   |                     |
| Viscosity, dynamic                         | : Data not available                        |                     |
| Viscosity, kinematic                       | : 46 mm2/s (40.0 °C)<br>Method: ASTM D445   |                     |
|  | 6.9 mm2/s (100 °C)<br>Method: ASTM D445     |                     |
| Explosive properties                       | : Not classified                            |                     |
| Oxidizing properties                       | : Data not available                        |                     |

# 9.2 Other information

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|---|--|-----------------------|
| Conductivity<br>Decomposition temperature | <ul><li>This material is not expected to be a</li><li>Data not available</li></ul> | a static accumulator. |

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

# 10.2 Chemical stability

Stable.

No hazardous reaction is expected when handled and stored according to provisions

### 10.3 Possibility of hazardous reactions

| Hazardous reactions                                    | : | Reacts with strong oxidising agents.   |  |  |
|--|---|--|--|--|
| <b>10.4 Conditions to avoid</b><br>Conditions to avoid | : | Extremes of temperature and direct sunlight.                                     |  |  |
| 10.5 Incompatible materials                            |   |  |  |  |
| Materials to avoid                                     | : | Strong oxidising agents.   |  |  |
| 10.6 Hazardous decomposition products                  |   |  |  |  |
| Hazardous decomposition<br>products                    | : | Hazardous decomposition products are not expected to form during normal storage. |  |  |

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

|    | Basis for assessment                     | : | Information given is based on data on the components and<br>the toxicology of similar products.Unless indicated otherwise,<br>the data presented is representative of the product as a<br>whole, rather than for individual component(s). |
|----|--|---|---|
|    | Information on likely routes of exposure | : | Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.   |
| Ас | ute toxicity<br><u>Product:</u>          |   |   |
|    | Acute oral toxicity                      | : | LD50 rat: > 5,000 mg/kg<br>Remarks: Expected to be of low toxicity:   |

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|---------------------------|--|-----------------------|
| Acute inhalation toxicity | : Remarks: Not considered to be an in normal conditions of use.      | halation hazard under |
| Acute dermal toxicity     | : LD50 Rabbit: > 5,000 mg/kg<br>Remarks: Expected to be of low toxic | sity:                 |

#### Skin corrosion/irritation

### Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

#### Serious eye damage/eye irritation

# Product:

Remarks: Expected to be slightly irritating.

### Respiratory or skin sensitisation

#### Product:

Remarks: For respiratory and skin sensitisation:, Not expected to be a sensitiser.

### Germ cell mutagenicity

# Product:

: Remarks: Not considered a mutagenic hazard.

# Carcinogenicity

#### Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

| Material                   | GHS/CLP Carcinogenicity Classification |
|----------------------------|--|
| Highly refined mineral oil | No carcinogenicity classification.     |

# Reproductive toxicity

# Product:

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Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

### STOT - single exposure

#### Product:

Remarks: Not expected to be a hazard.

### STOT - repeated exposure

#### Product:

Remarks: Not expected to be a hazard.

#### Aspiration toxicity

#### Product:

Not considered an aspiration hazard.

#### Further information

## Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

#### Summary on evaluation of the CMR properties

| Germ cell mutagenicity-<br>Assessment | : | This product does not meet the criteria for classification in categories 1A/1B. |
|---------------------------------------|---|---|
| Carcinogenicity -<br>Assessment       | : | This product does not meet the criteria for classification in categories 1A/1B. |
| Reproductive toxicity -<br>Assessment | : | This product does not meet the criteria for classification in categories 1A/1B. |

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### **SECTION 12: Ecological information**

# 12.1 Toxicity

| Basis for assessment                              | : | Ecotoxicological data have not been determined specifically<br>for this product.<br>Information given is based on a knowledge of the components<br>and the ecotoxicology of similar products.<br>Unless indicated otherwise, the data presented is<br>representative of the product as a whole, rather than for<br>individual component(s).(LL/EL/IL50 expressed as the<br>nominal amount of product required to prepare aqueous test<br>extract). |
|---|---|--|
| <u>Product:</u>                                   |   |  |
| Toxicity to fish (Acute toxicity)                 | : | Remarks: Expected to be practically non toxic:<br>LL/EL/IL50 > 100 mg/l  |
| Toxicity to crustacean (Acute toxicity)           | : | Remarks: Expected to be practically non toxic:<br>LL/EL/IL50 > 100 mg/l  |
| Toxicity to algae/aquatic plants (Acute toxicity) | : | Remarks: Expected to be practically non toxic:<br>LL/EL/IL50 > 100 mg/l  |
| Toxicity to fish (Chronic toxicity)               | : | Remarks: Data not available  |
| Toxicity to crustacean<br>(Chronic toxicity)      | : | Remarks: Data not available  |
| Toxicity to microorganisms                        | : |  |
| (Acute toxicity)                                  |   | Remarks: Data not available  |

# 12.2 Persistence and degradability

# Product:

| Biodegradability                           | : Remarks: Expected to be not readily biodegradable., Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment. |
|--|--|
| 12.3 Bioaccumulative potential             |  |
| Product:                                   |  |
| Bioaccumulation                            | : Remarks: Contains components with the potential to bioaccumulate.  |
| Partition coefficient: n-<br>octanol/water | : Pow: > 6Remarks: (based on information on similar products)  |
| 12.4 Mobility in soil                      |  |

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|---|---|
|   |   |
|   |   |
| sessment  |   |
|   |   |
|   |   |
|   |   |
|   |   |
| expected to be released to air in any sign<br>Not expected to have ozone depletion po<br>photochemical ozone creation potential o<br>potential.<br>Poorly soluble mixture., May cause physi<br>organisms.<br>Mineral oil is not expected to cause any c | ificant quantities.,<br>tential,<br>r global warming<br>cal fouling of aquatic<br>thronic effects to  |
|   | <ul> <li>Remarks: Liquid under most environment<br/>enters soil, it will adsorb to soil particles a<br/>mobile.<br/>Remarks: Floats on water.</li> <li>Ssessment</li> <li>This mixture does not contain any REACI<br/>substances that are assessed to be a PB</li> <li>Product is a mixture of non-volatile compre<br/>expected to be released to air in any sign<br/>Not expected to have ozone depletion po<br/>photochemical ozone creation potential o<br/>potential.<br/>Poorly soluble mixture., May cause physi</li> </ul> |

# SECTION 13: Disposal considerations

| 13.1 Waste treatment methods           |   |
|--|---|
| Product :                              | Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.<br>Waste, spills or used product is dangerous waste.   |
|  | Disposal should be in accordance with applicable regional,<br>national, and local laws and regulations.<br>Local regulations may be more stringent than regional or<br>national requirements and must be complied with.   |
| Contaminated packaging :               | Dispose in accordance with prevailing regulations, preferably<br>to a recognized collector or contractor. The competence of<br>the collector or contractor should be established beforehand.<br>Disposal should be in accordance with applicable regional,<br>national, and local laws and regulations. |
| Local legislation<br>Waste catalogue : | EU Waste Disposal Code (EWC):   |
| Waste Code :                           | 13 02 05*   |
| Remarks :                              | Classification of waste is always the responsibility of the end   |
| 14 / 18                                | 800001016009  |

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user.

# **SECTION 14: Transport information**

| 14.1 UN number                    |   |  |
|-----------------------------------|---|--|
| ADR                               | : | Not regulated as a dangerous good                            |
| RID                               | : | Not regulated as a dangerous good                            |
| IMDG                              | : | Not regulated as a dangerous good                            |
| ΙΑΤΑ                              | : | Not regulated as a dangerous good                            |
| 14.2 Proper shipping name         |   |  |
| ADR                               | : | Not regulated as a dangerous good                            |
| RID                               | : | Not regulated as a dangerous good                            |
| IMDG                              | : | Not regulated as a dangerous good                            |
| ΙΑΤΑ                              | : | Not regulated as a dangerous good                            |
| 14.3 Transport hazard class       |   |  |
| ADR                               | : | Not regulated as a dangerous good                            |
| RID                               | : | Not regulated as a dangerous good                            |
| IMDG                              | : | Not regulated as a dangerous good                            |
| ΙΑΤΑ                              | : | Not regulated as a dangerous good                            |
| 14.4 Packing group                |   |  |
| ADR                               | : | Not regulated as a dangerous good                            |
| RID                               | : | Not regulated as a dangerous good                            |
| IMDG                              | : | Not regulated as a dangerous good                            |
| ΙΑΤΑ                              | : | Not regulated as a dangerous good                            |
| 14.5 Environmental hazards        |   |  |
| ADR                               | : | Not regulated as a dangerous good                            |
| RID                               | : | Not regulated as a dangerous good                            |
| IMDG                              | : | Not regulated as a dangerous good                            |
| 14.6 Special precautions for user |   |  |
| Remarks                           | : | Special Precautions: Refer to Chapter 7, Handling & Storage, |
|                                   |   | for special precautions which a user needs to be aware of or |
|                                   |   | needs to comply with in connection with transport.           |

| Additional Information | : MARPOL Annex 1 rules apply for bulk shipments by sea. |
|------------------------|---|
| Special precautions    | : Not applicable  |
| Product name           | : Not applicable  |
| Ship type              | : Not applicable  |
| Pollution category     | : Not applicable  |

# **SECTION 15: Regulatory information**

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

REACH - List of substances subject to authorisation : Product is not subject to

| ersion 3.2                 | Revision Date 23.03.2016   | Print Date 24.03.2016   |
|----------------------------|--|---|
| (Annex XIV)                | Authoris   | ation under REACH.  |
| Volatile organic compounds | : 0 %  |   |
| Other regulations          | : Environmental Protection Act 1990<br>Safety at Work etc. Act 1974. Const<br>Pollution Prevention and Control Act<br>1995. Factories Act 1961. The Carri<br>and Use of Transportable Pressure<br>Regulations 2011. Chemicals (Haza<br>Packaging for Supply) Regulations 3<br>Substances Hazardous to Health Re<br>amended). Merchant Shipping (Darn<br>Pollutants) Regulations 1997. Repo<br>and Dangerous Occurrences Regul<br>Personal Protective Equipment Reg<br>Protective Equipment at Work Regu<br>Waste (England and Wales) Regula<br>Control of Major Accident Hazards R<br>amended). Energy Act 2011. Er<br>(England and Wales) Regulations 2<br>(England and Wales) Regulations 2<br>Planning (Hazardous Substances) A<br>regulations. The Environmental Pro<br>Ozone-Depleting Substances) Regu | umers Protection Act 1987.<br>tt 1999. Environment Act<br>iage of Dangerous Goods<br>Equipment (Amendment)<br>ard Information and<br>2009. Control of<br>egulations 2002 (as<br>ngerous Goods and Marine<br>orting of Injuries, Diseases<br>lations 1995 (as amended).<br>gulations 2002. Personal<br>lations 1992. Hazardous<br>ations 2005(as amended).<br>Regulations 1999 (as<br>uel Obligations Order 2007<br>nvironmental Permitting<br>2010 (as amended). Waste<br>2011 (as amended).<br>Act 1990 and associated<br>tection (Controls on |

| The components of this product are reported in the following invent | ories: |
|---|--------|
|---|--------|

| EINECS | : | All components listed or polymer exempt. |
|--------|---|--|
| TSCA   | : | All components listed.                   |

# 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# **SECTION 16: Other information**

| Full text of H-Statements |                   |
|---------------------------|-------------------|
| H304                      | May be fatal if s |

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

# Full text of other abbreviations

| Aquatic Chronic | Chronic aquatic toxicity |
|-----------------|--------------------------|
| Asp. Tox.       | Aspiration hazard        |

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| rsion 3.2                  | Revision Date 23.03.2016   | Print Date 24.03.20       |  |
|----------------------------|--|---------------------------|--|
| Abbreviations and Acronyms | : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites. |                           |  |
|                            | ACGIH = American Conference of Go<br>Hygienists  | overnmental Industrial    |  |
|                            | ADR = European Agreement concerning the International<br>Carriage of Dangerous Goods by Road   |                           |  |
|                            | AICS = Australian Inventory of Chemical Substances<br>ASTM = American Society for Testing and Materials  |                           |  |
|                            | BEL = Biological exposure limits   | -                         |  |
|                            | BTEX = Benzene, Toluene, Ethylber<br>CAS = Chemical Abstracts Service  | izene, Xylenes            |  |
|                            | CEFIC = European Chemical Industry   | y Council                 |  |
|                            | CLP = Classification Packaging and Labelling   |                           |  |
|                            | COC = Cleveland Open-Cup   |                           |  |
|                            | DIN = Deutsches Institut fur Normung<br>DMEL = Derived Minimal Effect Leve   |                           |  |
|                            | DNEL = Derived Ninima Enect Level  | I                         |  |
|                            | DSL = Canada Domestic Substance List   |                           |  |
|                            | EC = European Commission   |                           |  |
|                            | EC50 = Effective Concentration fifty   |                           |  |
|                            | ECETOC = European Center on Eco<br>Toxicology Of Chemicals   | toxicology and            |  |
|                            | ECHA = European Chemicals Agenc  | v                         |  |
|                            | EINECS = The European Inventory o  |                           |  |
|                            | Chemical Substances  | Ū                         |  |
|                            | EL50 = Effective Loading fifty   |                           |  |
|                            | ENCS = Japanese Existing and New   | Chemical Substances       |  |
|                            | Inventory<br>EWC = European Waste Code   |                           |  |
|                            | GHS = Globally Harmonised System of Classification and   |                           |  |
|                            | Labelling of Chemicals   |                           |  |
|                            | IARC = International Agency for Research on Cancer   |                           |  |
|                            | IATA = International Air Transport Association<br>IC50 = Inhibitory Concentration fifty  |                           |  |
|                            | IL50 = Inhibitory Level fifty  |                           |  |
|                            | IMDG = International Maritime Dange  | erous Goods               |  |
|                            | INV = Chinese Chemicals Inventory  |                           |  |
|                            | IP346 = Institute of Petroleum test method N° 346 for the  |                           |  |
|                            | determination of polycyclic aromatics DMSO-extractables<br>KECI = Korea Existing Chemicals Inventory   |                           |  |
|                            | LC50 = Lethal Concentration fifty  | entory                    |  |
|                            | LD50 = Lethal Dose fifty per cent.   |                           |  |
|                            | LL/EL/IL = Lethal Loading/Effective L  | oading/Inhibitory loading |  |
|                            | LL50 = Lethal Loading fifty<br>MARPOL = International Convention for the Prevention of   |                           |  |
|                            |  | for the Prevention of     |  |
|                            | Pollution From Ships<br>NOEC/NOEL = No Observed Effect (   | Concentration / No        |  |
|                            | Observed Effect Level  |                           |  |
|                            | OE_HPV = Occupational Exposure -   |                           |  |
|                            | PBT = Persistent, Bioaccumulative ar   |                           |  |
|                            | PICCS = Philippine Inventory of Cher   | nicals and Chemical       |  |

| Varaian 2.2         | Bayisian Data 22.02.2016  | Brint Data 24 02 2016  |  |
|---------------------|---|--|--|
| /ersion 3.2         | REACH = Registration Evaluation A<br>Chemicals<br>RID = Regulations Relating to Intern<br>Dangerous Goods by Rail<br>SKIN_DES = Skin Designation<br>STEL = Short term exposure limit<br>TRA = Targeted Risk Assessment<br>TSCA = US Toxic Substances Cont | Substances<br>PNEC = Predicted No Effect Concentration<br>REACH = Registration Evaluation And Authorisation Of<br>Chemicals<br>RID = Regulations Relating to International Carriage of<br>Dangerous Goods by Rail<br>SKIN_DES = Skin Designation<br>STEL = Short term exposure limit<br>TRA = Targeted Risk Assessment<br>TSCA = US Toxic Substances Control Act |  |
| Further information | TWA = Time-Weighted Average<br>vPvB = very Persistent and very Bio  | paccumulative  |  |
| Other information   | sheet. It is a non-classified mixture<br>substances as detailed in Section 3<br>Exposure Scenarios for the hazardo  | : No Exposure Scenario annex is attached to this safety data<br>sheet. It is a non-classified mixture containing hazardous<br>substances as detailed in Section 3; relevant information from<br>Exposure Scenarios for the hazardous substances contained<br>have been integrated into the core sections 1-16 of this SDS.                                       |  |
|                     | A vertical bar ( ) in the left margin in from the previous version.   | ndicates an amendment  |  |

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.