SAFETY DATA SHEET
According to EC No 1907/2006 as amended as at the date of this SDS

Shell Omala S4 WE 150

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

1.1 Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Shell Omala S4 WE 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>001D7856</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Use of the Substance/Mixture</th>
<th>Gear lubricant.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Manufacturer/Supplier</th>
<th>Univar Solutions AB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 4072</td>
<td></td>
</tr>
<tr>
<td>SE-203 11</td>
<td></td>
</tr>
<tr>
<td>Malmö</td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td>040-352800</td>
</tr>
<tr>
<td>Telefax</td>
<td>040-125172</td>
</tr>
<tr>
<td>Contact for Safety Data Sheet</td>
<td><a href="mailto:SDS@univar.com">SDS@univar.com</a></td>
</tr>
</tbody>
</table>

1.4 Emergency telephone number

<table>
<thead>
<tr>
<th>Outside office hours: SOS Alarm: 040-6769040;112, ask for Poison center; Kemiakuten: 020-996000</th>
</tr>
</thead>
</table>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Based on available data this substance/mixture does not meet the classification criteria.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal word</td>
<td>No signal word</td>
</tr>
<tr>
<td>Hazard statements</td>
<td>PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP</td>
</tr>
</tbody>
</table>
HEALTH HAZARDS:
Not classified as a health hazard under CLP criteria.

ENVIRONMENTAL HAZARDS:
Not classified as environmental hazard according to CLP criteria.

Precautionary statements:
Prevention: No precautionary phrases.
Response: No precautionary phrases.
Storage: No precautionary phrases.
Disposal: No precautionary phrases.

Safety data sheet available on request.

Sensitising components: Contains Alkaryl Carboxylic Acid Derivative
May produce an allergic reaction.

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
Chemical nature: Blend of polyalkylene glycol and additives.

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, isopropylated, phosphate</td>
<td>68937-41-7</td>
<td>273-066-3</td>
<td>01-2119535109-41</td>
<td>Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 4; H413</td>
<td>0,1 - 0,5</td>
<td></td>
</tr>
<tr>
<td>(3:1) [Triphenyl phosphate &lt; 5%]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4-nonylphenoxy)acetic acid</td>
<td>3115-49-9</td>
<td>221-486-2</td>
<td>01-2119982392-31</td>
<td>Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Aquatic Acute 1;</td>
<td>0,01 - 0,09</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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. 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. Remove contact lenses, if present and easy to do. Continue rinsing. 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 of black pustules and spots on the skin of exposed areas. 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: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media : Do not use water in a jet.

5.2 Special hazards arising from the substance or mixture
Specific hazards during firefighting : Hazardous combustion products may include:
   A complex mixture of airborne solid and liquid particulates and gases (smoke).
   Carbon monoxide may be evolved if incomplete combustion occurs.
   Unidentified organic and inorganic compounds.

5.3 Advice for firefighters
Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

6.2 Environmental precautions
Environmental precautions : Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

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 : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
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6.4 Reference to other sections
For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Technical measures: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.
Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Advice on safe handling: Avoid prolonged or repeated contact with skin.
Avoid inhaling vapour and/or mists.
When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Product Transfer: Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.

7.2 Conditions for safe storage, including any incompatibilities
Further information on storage stability: Keep container tightly closed and in a cool, well-ventilated place.
Use properly labeled and closable containers.
Store at ambient temperature.

Packaging material: Suitable material: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable material: PVC.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Biological occupational exposure limits
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.
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.
Approved to EU Standard EN166.

Hand protection

Remarks: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For
short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Skin and body protection: Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.

Respiratory protection: No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [Type A/Type P boiling point > 65°C (149°F)] meeting EN14387 and EN143.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid at room temperature.</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight hydrocarbon</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Data not available</td>
</tr>
</tbody>
</table>
| pour point                        | -42 °C 
  Method: ISO 3016                                  |
| Melting / freezing point          | Data not available                                    |
| Initial boiling point and boiling | > 280 °CEstimated value(s)                           |
| range                             |                                                       |
| Flammability                      | Not applicable                                       |
| Upper explosion limit / upper     | Typical 10 %(V)                                      |
flammbility limit

Lower explosion limit / Lower flammability limit:
Typical 1 % (V)

Flash point:
268 °C
Method: ISO 2592

Auto-ignition temperature:
> 320 °C

Decomposition temperature:
Decomposition temperature:
Data not available

pH:
Not applicable

Viscosity:
Viscosity, dynamic:
Data not available

Viscosity, kinematic:
136 mm²/s (40.0 °C)
Method: Unspecified
22.5 mm²/s (100 °C)
Method: Unspecified

Solubility(ies):
Water solubility:
Moderate

Solubility in other solvents:
Data not available

Partition coefficient: n-octanol/water:
log Pow: > 6
(based on information on similar products)

Vapour pressure:
< 0.5 Pa (20 °C)
estimated value(s)

Relative density:
1.076 (15 °C)

Density:
1.076 kg/m³ (15.0 °C)
Method: ISO 12185

Relative vapour density:
> 1
estimated value(s)

9.2 Other information

Explosives:
Classification Code: Not classified

Oxidizing properties:
Data not available

Flammability (liquids):
Not classified as flammable but will burn.
Evaporation rate : Data not available
Conductivity : This material is not expected to be 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.

10.4 Conditions to avoid
Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Materials to avoid : Strong oxidising agents.

10.6 Hazardous decomposition products
No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Information on likely routes of exposure : Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:
Acute oral toxicity : LD50 (rat): > 5.000 mg/kg
Remarks: Low toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Remarks: Low toxicity:
Based on available data, the classification criteria are not met.
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Skin corrosion/irritation

Product:
Remarks: Slightly irritating to skin.
Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:
Remarks: Slightly irritating to the eye.
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:
Remarks: For respiratory and skin sensitisation:
Not a sensitisier.
Based on available data, the classification criteria are not met.

Components:

(4-nonylphenoxy)acetic acid:
Remarks: May cause an allergic skin reaction in sensitive individuals.

Germ cell mutagenicity

Product:
Genotoxicity in vivo: Remarks: Non mutagenic
Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment: This product does not meet the criteria for classification in categories 1A/1B.

Carcinogenicity

Product:
Remarks: Not a carcinogen.
Based on available data, the classification criteria are not met.

Carcinogenicity - Assessment: This product does not meet the criteria for classification in categories 1A/1B.

<table>
<thead>
<tr>
<th>Material</th>
<th>GHS/CLP Carcinogenicity Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, isopropylated, phos-</td>
<td>No carcinogenicity classification.</td>
</tr>
</tbody>
</table>
Reproductive toxicity

**Product:**

Effect on fertility: Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met.
Remarks: Does not impair fertility., Based on available data, the classification criteria are not met.

Reproductive toxicity - Assessment: This product does not meet the criteria for classification in categories 1A/1B.

**STOT - single exposure**

**Product:**
Remarks: Based on available data, the classification criteria are not met.

**STOT - repeated exposure**

**Product:**
Remarks: Based on available data, the classification criteria are not met.

**Aspiration toxicity**

**Product:**
Not an aspiration hazard., Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

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

SECTION 12: Ecological information

12.1 Toxicity

**Product:**

| Toxicity to fish | Remarks: LL/EL/IL50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met. |
|-----------------|----------------------------------|
| Toxicity to daphnia and other aquatic invertebrates | Remarks: LL/EL/IL50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met. |
| Toxicity to algae/aquatic plants | Remarks: LL/EL/IL50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met. |
| Toxicity to fish (Chronic toxicity) | Remarks: Based on available data, the classification criteria are not met. |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | Remarks: Based on available data, the classification criteria are not met. |

**Components:**

(4-nonylphenoxy)acetic acid:
M-Factor (Acute aquatic toxicity): 1

12.2 Persistence and degradability

**Product:**

| Biodegradability | Remarks: Not readily biodegradable.  
Major constituents are 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. |
12.4 Mobility in soil

**Product:**

**Mobility**

Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile.

12.5 Results of PBT and vPvB assessment

**Product:**

**Assessment**

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

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

**Product:**

**Additional ecological information**

Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential. Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Poorly soluble mixture.

Causes physical fouling of aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product**

Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.

Do not dispose into the environment, in drains or in water courses.

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides tech-
nical aspects at controlling pollutions from ships.

Disposal, transport, storage and handling should be in accordance with SE regulation Avfallsförordning (2011:927).

Contaminated packaging: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Packing: Emptying: Place the package upside down, and tilt slightly, circa 10 degrees, to enable drainage in such a way that the lowest part of the package is at the exit orifice. On some packing an extra hole must be made. Drainage should be carried out at room temperature (at least 15 °C). Wait until the package is drip dry. Do not close package after draining. Please note the risks connected with emptying package and containers with flammable liquids. Emptied package should be ventilated in a safe place away from sparks and fire. Residues may be an explosion risk. Do not puncture, cut or weld in non-cleaned package, containers or drums.

Local legislation

Waste catalogue:

EU Waste Disposal Code (EWC):

Waste Code:

13 02 06*

Remarks:

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Classification of waste is always the responsibility of the end user.

Suggestion for emptied package:
15 01 02: Plastic packaging
15 01 04 metallic packaging.
Packages containing any remaining product and which have not been emptied until drip dry, must be handled as dangerous waste and must be well sealed before disposal.

Suggestion for waste code:
15 01 10: Packaging containing residues of or contaminated by dangerous substances
SECTION 14: Transport information

14.1 UN number or ID number

| ADR       | Not regulated as a dangerous good |
| RID       | Not regulated as a dangerous good |
| IMDG      | Not regulated as a dangerous good |
| IATA      | Not regulated as a dangerous good |

14.2 UN proper shipping name

| ADR       | Not regulated as a dangerous good |
| RID       | Not regulated as a dangerous good |
| IMDG      | Not regulated as a dangerous good |
| IATA      | Not regulated as a dangerous good |

14.3 Transport hazard class(es)

| ADR       | Not regulated as a dangerous good |
| RID       | Not regulated as a dangerous good |
| IMDG      | Not regulated as a dangerous good |
| IATA      | 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 |
| IATA      | 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 Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.
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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 (Annex XIV): Product is not subject to Authorisation under REACH.

Volatile organic compounds: Volatile organic compounds (VOC) content: 0 %

Other regulations:
The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.


Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work and its amendments.


Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding and its amendments.

The components of this product are reported in the following inventories:

REACH: All components listed.

TSCA: Notified with Restrictions.

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

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H413: May cause long lasting harmful effects to aquatic life.
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Full text of other abbreviations

- Acute Tox.: Acute toxicity
- Aquatic Acute: Short-term (acute) aquatic hazard
- Aquatic Chronic: Long-term (chronic) aquatic hazard
- Repr.: Reproductive toxicity
- Skin Corr.: Skin corrosion
- Skin Sens.: Skin sensitisation
- STOT RE: Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

- Training advice: Provide adequate information, instruction and training for operators.
- Other information: A vertical bar (|) in the left margin indicates an amendment from the previous version.
- Sources of key data used to compile the Safety Data Sheet: The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers’ data, CONCAWE, EU
SAFETY DATA SHEET
According to EC No 1907/2006 as amended as at the date of this SDS

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IUCLID date base, EC 1272 regulation, etc).

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