**Compilation date:** 12/03/2015

**Revision date:** 20/03/2020

**Revision No:** 3

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

**1.1. Product identifier**

**Product name:** SOL 15EP

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

**Use of substance / mixture:** PC25: Metal working fluids.

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

**Company name:** Solutec Ltd

Unit 1, 277 Crewe Road

Haslington

Crewe

Cheshire

CW1 5RU

United Kingdom

**Tel:** +44 (0)1270 214123

**Fax:** +44 (0)1270 251221

**Email:** solutec@hotmail.co.uk

## 1.4. Emergency telephone number

**Emergency tel:** +44 (0)1270 214123

(office hours only)

# Section 2: Hazards identification

## 2.1. Classification of the substance or mixture

|  |  |
| --- | --- |
| **Classification under CLP:** | Aquatic Chronic 3: H412; Eye Irrit. 2: H319 |
| **Most important adverse effects:** | Causes serious eye irritation. Harmful to aquatic life with long lasting effects. |

## 2.2. Label elements

|  |  |
| --- | --- |
| **Label elements:** |  |
| **Hazard statements:** | H319: Causes serious eye irritation. |

H412: Harmful to aquatic life with long lasting effects.

|  |
| --- |
| **Hazard pictograms:**  **Signal words: Precautionary statements:** |

GHS07: Exclamation mark

Warning

P264: Wash hands thoroughly after handling.

[cont...]

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/container to specialist waste disposal company.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

## 3.2. Mixtures

**Hazardous ingredients:**

ISOTRIDECANOL, ETHOXYLATED (>=2.5 EO) - REACH registered number(s): NOT RELEVANT (POLYMER)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
| 931-138-8 | 69011-36-5 | - | Eye Irrit. 2: H319; Aquatic Chronic 3:  H412 | 5-10% |
| DISTILLED TALL OIL - REACH registered number(s): 02-2119536477-31-XXXX | | | |  |
| 232-304-6 | 8002-26-4 | Substance with a Community workplace exposure limit. | - | 5-10% |

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE - REACH registered number(s): 01-2119980592-29-XXXX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 219-145-8 | 2372-82-9 | - | Skin Corr. 1B: H314; Aquatic Acute 1:  H400; Aquatic Chronic 1: H410; STOT  RE 2: H373; Acute Tox. 3: H301 | <1% |

# Section 4: First aid measures

## 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. If irritation persists, obtain medical

advice.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a Doctor if irritation persists.

**Ingestion:** Wash out mouth with water and obtain medical attention. Treat symptomatically. If

aspiration is suspected, obtain immediate medical attention.

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

**Skin contact:** Occasional contact with undiluted product is unlikely to cause any significant reaction. Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness.

**Eye contact:** Eye contact with undiluted product may cause moderate irritation and stinging. There

may be a potential to cause corneal injury if treatment is not prompt. Dilute emulsions are expected to cause only slight transient irritation or redness.

**Ingestion:** The product has a low order of acute oral toxicity; ingestion is not regarded as a

significant hazard likely to arise in normal use.

**Inhalation:** The product is unlikely to present any significant hazard at ambient temperatures. High

temperatures or atomising systems may lead to generation of vapours, mists or fumes which could cause irritation to eyes and respiratory tract. Repeated excessive exposure to oil mists may cause respiratory damage and a condition resembling pneumonia.

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

**Immediate / special treatment:** For pressure injection always obtain immediate medical attention.

# Section 5: Fire-fighting measures

## 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide.

Dry chemical powder. Alcohol resistant foam.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes. See section 10.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

# Section 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for

disposal by an appropriate method.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS.

# Section 7: Handling and storage

## 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Store in dry conditions between 0 and 40°C.

**7.3. Specific end use(s)**

**Specific end use(s):** PC25: Metal working fluids.

# Section 8: Exposure controls/personal protection

## 8.1. Control parameters

**Hazardous ingredients:**

**DISTILLED TALL OIL**

**Workplace exposure limits: Respirable dust:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| State | | 8 hour TWA | | 15 min. STEL |  | 8 hour TWA |  | 15 min. STEL | |  |
| EU | | 10mg/m3 | |  | - |  | - |  | | - |
| **DNEL/PNEC Values** | | | |  | | | | | | | | |
| **DNEL / PNEC** | | | | No data available. | | | | | | | | |
| **8.2. Exposure controls** | | | |  | | | | | | | | |
| **Engineering measures:** | | Ensure there is sufficient ventilation of the area. | | | | | |
| **Respiratory protection:** | | Respiratory protection is not normally required if oil mist below 0.1mg/m3. For environments where oil mists exceed more than 0.1mg/m3 a oil resistant particulate respirator is recommended, filter class P2 (EN143) or above. | | | | | |
| **Hand protection:** | | Protective gloves. Prolonged or repeated contact with diluted metalworking fluid is often unavoidable, in such circumstances; the use of barrier and after work creams may be beneficial. Avoid direct contact with the neat product where possible, in such circumstances where this is unavoidable the use of oil impervious gloves (nitrile type) is recommended. The typical permeation breakthrough time of a disposable nitrile glove should be greater than 1 hour, however this should be confirmed with the glove manufacturer. | | | | | |
| **Eye protection:** | | Wear goggles or face mask when handling undiluted product. Ensure eye bath is to hand. | | | | | |
| **Skin protection:** | | Oil-resistant protective clothing is recommended. Change heavily contaminated clothing | | | | | |

as soon as possible.

# Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Orange-brown

**Odour:** Barely perceptible odour

**Solubility in water:** Miscible

**Kinematic viscosity:** 100-200

**Viscosity test method:** Kinematic viscosity in mm²/s @ 40°C IP71

**Boiling point/range°C:** >100 **Melting point/range°C:** <0

**Flash point°C:** >100 **Autoflammability°C:** No data available.

|  |  |
| --- | --- |
| **Relative density:** 0.94 | **pH:** 8.8-9.2 |
| **9.2. Other information** |  |

**Other information:** No data available.

# Section 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Extremes of temperature. Store between 0 and 40°C.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** Thermal decomposition can produce various compounds, depending on the conditions

in which decomposition took place. Depending on the temperature and the level of oxygen available products of decomposition may be carbon, oxides of sulphur, carbon and nitrogen, partially oxidised organic compounds, water and other unidentifiable organic and inorganic compounds.

# Section 11: Toxicological information

## 11.1. Information on toxicological effects

**Hazardous ingredients:**

**ISOTRIDECANOL, ETHOXYLATED (>=2.5 EO)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DERMAL | RAT | LD50 | >2000 | mg/kg |
| ORAL | RAT | LD50 | >5000 | mg/kg |

**DISTILLED TALL OIL**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ORAL | RAT |  | LD50 |  | >6000 | mg/kg |
| **Relevant hazards for product:** | |  | |  | | |
| Hazard | | Route | | Basis | | |
| Serious eye damage/irritation | | OPT | | Hazardous: calculated | | |

## Symptoms / routes of exposure

|  |  |
| --- | --- |
| **Skin contact:** | Occasional contact with undiluted product is unlikely to cause any significant reaction. Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness. |
| **Eye contact:** | Eye contact with undiluted product may cause moderate irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt. Dilute emulsions are expected to cause only slight transient irritation or redness. |
| **Ingestion:** | The product has a low order of acute oral toxicity; ingestion is not regarded as a significant hazard likely to arise in normal use. |
| **Inhalation:** | The product is unlikely to present any significant hazard at ambient temperatures. High temperatures or atomising systems may lead to generation of vapours, mists or fumes which could cause irritation to eyes and respiratory tract. Repeated excessive exposure to oil mists may cause respiratory damage and a condition resembling pneumonia. |
| **Other information:** | Aspiration into the lungs caused by vomiting following ingestion can be hazardous with |

possible resultant chemically induced pneumonia

# Section 12: Ecological information

## 12.1. Toxicity

**Hazardous ingredients:**

**ISOTRIDECANOL, ETHOXYLATED (>=2.5 EO)**

|  |  |  |  |
| --- | --- | --- | --- |
| Cyprinuscarpio | 96H LC50 | >1-10 | mg/l |
| Daphnia magna | 48H EC50 | >1-10 | mg/l |
| Desmodesmussubspicatus (green algae) | 72H EC10 | 0.6 | mg/l |
| Desmodesmussubspicatus (green algae) | 72H EC50 | 1-10 | mg/l |

**DISTILLED TALL OIL**

|  |  |  |  |
| --- | --- | --- | --- |
| ALGAE | 72H NOEC | 1000 | mg/l |
| FISH | 96H NOEC | 1000 | mg/l |

## 12.2. Persistence and degradability

**Persistence and degradability:** The individual components range from readily to poorly biodegradable. Mineral oil itself

has limited biodegradability when tested by method CEC L-33-T-82.

**12.3. Bioaccumulative potential**

## 12.4. Mobility in soil

**Mobility:** Small quantities will be absorbed in the upper soil layers where biodegradation may

take place.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Not regarded as dangerous for the environment. However, large or frequent spills may

have hazardous effects on the environment.

# Section 13: Disposal considerations

## 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal

company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**Transport class:** This product does not require a classification for transport.

# Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

## 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

# Section 16: Other information

## Other information

|  |  |
| --- | --- |
| **Other information:** | This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. |
| **Phrases used in s.2 and s.3:** | H301: Toxic if swallowed. |

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

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.

H412: Harmful to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

[final page]