**Compilation date:** 09/04/2017

**Revision date:** 12/08/2019

# Revision No: 6

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

**1.1. Product identifier**

**Product name:** ZUR LIQUID CUTTING COMPOUND

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

**Use of substance / mixture**: Polishes and wax blends.

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

**Zurechem Products Ltd | +203462516**

**Factory : New Borg El-Arab City,2nd Industrial Zone,Alex.,Egypt.**

**Info @** [**www.zurechem.com**](http://www.zurechem.com)

**1.4. Emergency telephone number**

**Classification under CLP:** Aquatic Chronic 3: H412; Skin Sens. 1: H317; STOT RE 2: H373

**Section 2: Hazards identification**

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

**Most important adverse effects:** May cause an allergic skin reaction. May cause damage to organs ([nervous system]) through prolonged or repeated exposure ([inhalation (vapour)]). Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

# Label elements:

**Hazard statements:** H317: May cause an allergic skin reaction.

H373: May cause damage to organs ([nervous system]) through prolonged or repeated exposure ([inhalation (vapour)]).

H412: Harmful to aquatic life with long lasting effects.

**Hazard pictograms:** GHS07: Exclamation mark

GHS08: Health hazard

**Signal words:** Warning

**Precautionary statements:** P102: Keep out of reach of children.

P260: Do not breathe dust/vapours. P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P314: Get medical advice/attention if you feel unwell.

P363: Wash contaminated clothing before reuse.

**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:

ALUMINIUM OXIDE - REACH registered number(s): 01-2119529248-35-XXXX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
| 215-691-6 | 1344-28-1 | Substance with a Community workplace exposure limit. | - | 30-50% |

WHITE MINERAL OIL (PETROLEUM) - REACH registered number(s): 01-2119487078-27-XXXX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 232-455-8 | 8042-47-5 | Substance with a Community workplace exposure limit. | Asp. Tox. 1: H304 | 1-10% |

KEROSINE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT - REACH registered number(s): 01-2119484819-18-XXXX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 265-149-8 | 64742-47-8 | - | Asp. Tox. 1: H304; Aquatic Chronic 2: H411 | 1-10% |

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLIC, AROMATICS (2-25%) - REACH registered number (s): 01-2119458049-33-0000

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 919-446-0 | - | - | Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H336; STOT RE 1: H372;  Aquatic Chronic 2: H411; -: EUH066 | 1-10% |

PINE OIL - REACH registered number(s): 01-2119553062-49-0005

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 232-268-1 | 8000-41-7 | - | Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Asp. Tox. 1: H304 | 1-10% |

1,2-BENZISOTHIAZOLIN-3-ONE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 220-120-9 | 2634-33-5 | - | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400 | <0.1% |

**Contains:** Pine oil

1,2-benzisothiazolin-3-one

Kerosine - Unspecified - Distillates (Petroleum), Hydrotreated Light Hydrocarbons, C9-C12, N-Alkanes, Isoalkanes, Cyclics, Aromatics (2-25%)

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Delayed effects can be expected after long-term exposure.

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

**Immediate / special treatment:** Not applicable.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

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

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

**Exposure hazards:** In combustion emits toxic fumes.

**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. Do not create dust.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** 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. Avoid the formation or spread of dust in the air.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

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

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

# Hazardous ingredients: ALUMINIUM OXIDE

**Workplace exposure limits: Respirable dust**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
| UK | - | - | 5mg/m3 | - |

**WHITE MINERAL OIL (PETROLEUM)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EU | 5 mg/m3 | - | - | - |

**HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLIC, AROMATICS (2-25%)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UK | 350 mg/m3 | - | - | - |

**PINE OIL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EU | 25 ppm, 140 mg/m3 | 50 ppm, 300 mg/m3 | - | - |

**DNEL/PNEC Values**

**Hazardous ingredients:**

**HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLIC, AROMATICS (2-25%)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Exposure | Value | Population | Effect |
| DNEL | Inhalation | 330 mg/m3 | Workers | Systemic |
| DNEL | Dermal | 44 mg/kg/day | Workers | Systemic |
| DNEL | Inhalation | 71 mg/m3 | Consumers | Systemic |
| DNEL | Dermal | 26 mg/kg/day | Consumers | Systemic |
| DNEL | Oral | 26 mg/kg/day | Consumers | Systemic |

**1,2-BENZISOTHIAZOLIN-3-ONE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Exposure | Value | Population | Effect |
| DNEL | Inhalation (developmental tox) | 111 | Consumers | Systemic |

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** LIQUID

**Colour:** Cream

**Odour:** Characteristic odour

**Evaporation rate:** No Data Available

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Slightly soluble

**Also soluble in:** Ethanol.

**Viscosity:** Highly viscous

**Kinematic viscosity:** 35000cps

**Viscosity test method:** Brookfield @ 20degC

**Boiling point/range°C:** No data available. **Melting point/range°C:** No data available.

**Flammability limits %: lower:** No data available. **upper:** No data available. **Flash point°C:** 83 **Part.coeff. n-octanol/water:** No data available. **Autoflammability°C:** >250 **Vapour pressure:** No data available.

**pH:** 9 - 10

**9.2. Other information**

**Other information:** Not applicable.

**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: Heat.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

# Hazardous ingredients:

**ALUMINIUM OXIDE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DUST/MIST | RAT | LC50 | 7.6 | mg/l |
| ORAL | RAT | LD50 | > 2000 | mg/kg |

**HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLIC, AROMATICS (2-25%)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DERMAL | RAT | LD50 | >3400 | mg/kg |
| ORAL | RAT | LD50 | >15000 | mg/kg |
| VAPOURS | RAT | 4H LC50 | >13100 | mg/l |

**PINE OIL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DERMAL | RBT | LD50 | > 2000 | mg/kg |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ORAL | RAT | LD50 | > 2000 | mg/kg |
| VAPOURS | RAT | 4H LC50 | 4.76 | mg/l |

**1,2-BENZISOTHIAZOLIN-3-ONE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ORL | MUS | LD50 | 1150 | mg/kg |
| ORL | RAT | LD50 | 1020 | mg/kg |

**Relevant hazards for product:**

|  |  |  |
| --- | --- | --- |
| Hazard | Route | Basis |
| Respiratory/skin sensitisation | DRM | Hazardous: calculated |
| STOT-repeated exposure | - | Hazardous: calculated |

**Symptoms / routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Delayed effects can be expected after long-term exposure.

**Other information:** Not applicable.

**Section 12: Ecological information**

**12.1. Toxicity**

# Hazardous ingredients:

**ALUMINIUM OXIDE**

|  |  |  |  |
| --- | --- | --- | --- |
| Daphnia magna | 48H EC50 | > 100 | mg/l |
| GREEN ALGA (Selenastrum capricornutum) | 48H EC50 | > 100 | mg/l |
| Salmo trutta | 96H LC50 | > 100 | mg/l |

**HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, CYCLIC, AROMATICS (2-25%)**

|  |  |  |  |
| --- | --- | --- | --- |
| ALGAE | 72H IC50 | <10 | mg/l |
| Daphnia magna | 48H EC50 | <22 | mg/l |
| Microorganisms | 48H EC50 | 43.98 | mg/l |
| RAINBOW TROUT (Oncorhynchus mykiss) | 96H LC50 | <30 | mg/l |

**PINE OIL**

|  |  |  |  |
| --- | --- | --- | --- |
| ALGAE | 72H ErC50 | 68 | mg/l |
| Daphnia magna | 48H EC50 | 73 | mg/l |

|  |  |  |  |
| --- | --- | --- | --- |
| FISH | 96H LC50 | >62 | mg/l |

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Soluble in water.

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

# Persistence (P-):

**Bioaccumulation (B-):**

**Toxicity (T-):**

**Persistence result:** not P-

# Bioconcentration factor (BCF): >=500

**Bioaccumulation result:** not B-

mg/l

# NOEC for marine or freshwater organisms: >1

**Toxicity result:** not T-

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

**12.6. Other adverse effects**

**Other adverse effects:** Negligible ecotoxicity.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

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

**Recovery operations:** Not applicable.

**Waste code number:** 08 04 12

**Disposal of packaging:** Dispose of as normal industrial waste.

**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:** EU Legislation Regulation (EC) No 1907/2006 REACH. Regulation (EC) No 1272/2008 CLP. The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

**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.