## 1. Product

**Product Name:** **Prep**

## 2. Hazards Identification

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

**2.1.1 Commission Regulation (EC) 1272/2008, as amended**

| **Hazard Classes** | **Classification** |
|---|---|
| Flammable Liquid | Flam liq. 2, H225 |
| Eye irritant | Eye irrit. 2, H319 |
| Specific target organ toxicity – single exposure | STOT, sing. 3, H336 |

**2.1.2 Most important adverse effects**

Product and vapours from product are highly flammable.
Vapour and air can form explosive mixtures.
Eye irritant.

***2.2 EC labelling according to Commission Regulation (EC) 1272/2008, as amended***

**2.2.1 Label elements**

Trade Name Nail Scrub

**2.2.2 Hazard pictograms**

**2.2.3 Signal word** Danger

**2.2.4 Hazard Statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**2.2.5 Precautionary statements**

**Prevention**

| | |
|---|---|
| P102 | Keep out of reach of children. |

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed |
| P261 | Avoid breathing vapours |
| **Reaction** | |
| 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 | Get medical advice/attention if eye irritation persists. |
| **Storage** | |
| P235 | Keep cool |
| **Disposal** | |
| P501 | Dispose of contents/container to a specialist waste reprocessing plant in accordance with local/regional regulations. |

***2.3 Other hazards***

The product does not meet the criteria for PBT or vPvB.

## 3. Composition / Information on Ingredients

***3.1 Substances***

Not applicable

***3.2 Hazardous Components***

| INCI – Ingredient Name | CAS Number | EINECS Number | CLP Classification | %-Range |
|---|---|---|---|---|
| Acetone | 67-64-1 | 200-662-1 | Flam. Liq. 2, H225<br>Eye irrit. 2, H319<br>STOT, sing. 3, H336 | 25-100 |
| Isopropyl alcohol | 67-63-0 | 200-661-7 | Flam. Liq. 2, H225<br>Eye irrit. 2, H319<br>STOT. Sing. 3, H336 | 25-100 |

For the full text of the hazard statements mentioned in sections 2 and 3 see section 16.

## 4. First Aid Measures

***4.1. Description of first aid measures***

**Skin contact:** Take off contaminated clothing.

**Inhalation:** Move person into fresh air and keep at rest. Call a doctor/physician if the person feels unwell.

**Ingestion:** Rinse mouth. Consult a doctor/physician if the person feels unwell.

**Eye Contact:** Rinse the eyes with water for several minutes; remove contact lenses, if present and easy to do; continue rinsing. Get medical advice/attention if eye irritation persists.

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

**4.2.1 Acute symptoms and effects on exposure**

On contact with the fluid: red eyes and pain. On inhalation: sleepiness or drowsiness.

**4.2.2 Delayed symptoms and effects on exposure**

On repeated and/or long-term exposure: dry or cracked skin.

## 5. Fire Fighting Measures

***5.1. Extinguishing media***

**Extinguishing media:** Powder, foam, water spray, carbon dioxide.

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

**Exposure hazards:** Vapour and air forming explosive mixtures.
In the event of fire, toxic vapour will be released (carbon monoxide and/or carbon dioxide).

***5.3. Advice for fire-fighters***

**5.3.1 Protective measures**

In the event of fire: keep containers in the immediate vicinity cool by spraying with water.

**5.3.2 Special protective equipment**

Wear self-contained breathing apparatus when approaching the fire or when in a room if necessary.

## 6. Accidental Release Measures

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

Gloves, boots. Respiratory equipment.
Ensure adequate ventilation.
Remove all sources of ignition.

***6.2* Environmental precautions**

Keep away from drains, surface water or soil.

***6.3*** **Methods and material for containment and clearing up**

Absorb small spillages of product with an inert material. Allow to evaporate in a safe place.
Large spillages should be dammed off and removed with an explosion-proof vacuum cleaner; recycle where possible. Wash away any residue with water.

***6.4 Reference to other sections*** See also sections 8 and 13.

## 7. Handling and Storage

***7.1. Precautions for safe handling***

Use in well-ventilated areas only.
Keep away from sources of ignition - No smoking.
Use explosion-proof electrical equipment and lighting.

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

**7.2.1 Preventing fire and explosion** Keep packaging in a well-ventilated place.
Keep packaging tightly closed.
Keep in a fire-resistant place separate from oxidants.

**7.2.2 Protection against environmental attack**

Protect against heat and direct sunlight.
Suitable materials for packaging: approved plastic/glass/steel/stainless steel.

***7.3 Specific end use(s)*** Please contact the supplier.

## 8. Exposure Controls / Personal Protection

***8.1. Control parameters***

**8.1.1 Exposure limit values**

| **Acetone** | mg/m3 | ppm | Indicative |
|---|---|---|---|
| TWA limit value (NL) 8 hours | 1,210 | 500 | |
| TWA limit value (NL) 15 hours | 2,420 | | |
| **Isopropyl alcohol** | mg/m3 | ppm | Indicative |

| | |
|---|---|
| TWA limit value (NL) 8 hours | 500 |
| TWA limit value (NL) 15 hours | 1,000 |

***8.2. Exposure controls***

**8.2.1 Technical measures**

Sealed equipment

Ventilation and local extraction

**8.2.2 Individual protective me** **sures**

**Respiratory protection:** a filter for organ

**Eye protection:** Safety goggles.

**Skin protection:**

**Hands:**

Butyl rubber 0.7 mm gloves

Linear low-density polyethylene (LLDPE) 0.75 mm gloves

**Other measures:**

Protective clothing

**8.2.3 Environmental exposure controls**

Remove contaminated air from the local extractor and drain waste water in accordance with local environmental regulations.

## 9. Physical and Chemical Properties

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

| | |
|---|---|
| **Form:** | Fluid |
| **Colour:** | Blue |
| **Odour:** | Distinctive |
| **Odour threshold, mg/m3** | 0.4-3 |
| **Ph:** | Not applicable |
| **Melting point/range, °C** | < -20 |
| **Boiling point/range, °C** | 56-82 |
| **Flash point, °C** | -8°C |
| **Evaporation rate** | Not available |
| **Flammability limits, vol% in air** | 2.1 - 13 (acetone) |
| **Vapour pressure, mbar at 20 °C** | 247 (acetone) |
| **Relative density (water = 1)** | 0.8 |
| **Solubility in water** | 100% |
| **Auto-ignition temperature** | 425 (isopropyl alcohol) |

***9.2 Other information***

| | |
|---|---|
| **Miscibility** | Miscible with organic solvents |

## 10. Stability and Reactivity

***10.1. Reactivity***
**Reactivity:** No hazardous reaction if directions for handling and storage are observed.

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

***10.3. Possibility of hazardous reactions***
**Hazardous reactions:** Reacts strongly to oxidants and strong acids

***10.4. Conditions to avoid***
**Conditions to avoid:** Storage temperatures >40 °C. Sources of ignition (open flame, warm surfaces and sparks).

***10.5. Incompatible materials***
**Materials to avoid:** Oxidants and strong acids. Attacks rubber and many synthetics.

***10.6. Hazardous decomposition products***
**Haz. decomp. Products:** Does not decompose if used and stored as directed.

## 11. Toxicological Information

***11.1. Acute toxicity*** **Acetone**

| **Acute Toxicity:** | **LD50** | **LC50/4 h** |
|---|---|---|
| Oral | 5.8-8.4 mg/kg | |
| Dermal | > 15.700 mg/kg | |
| Inhalation | | 76 mg/l Eye |

**Serious eye injury/irritation:** Irritant
**STOT – single exposure:** May cause drowsiness or dizziness

**Isopropyl alcohol**

| **Acute Toxicity:** | **LD50** | **LC50/4 h** |
|---|---|---|
| Oral | 4,396 mg/kg | |
| Dermal | 12,870 | |
| Inhalation | | 72,6 mg/l Eye |

**Serious eye injury/irritation:** Irritant

***11.2 Symptoms/routes of exposure***

The product can enter the body by inhalation of the vapours or swallowing the fluid.

***11.3 Chronic toxicity***

The fluid may cause skin dryness or cracking.

## 12. Ecological Information

***12.1 Ecotoxicity*** **Acetone**

| | |
|---|---|
| **Fish** | LC50 fish, 96 hours: 5,540-13,000 mg/l |
| **Crustaceans** | LC50 daphnia, 48 hours: 7,635-15,800 mg/l |
| **Algae** | LC50 (algae, 72 hours): no data available |

**Isopropyl alcohol**

| | |
|---|---|
| **Fish** | LC50 fish, 96 hours: 1,400 mg/l |
| **Crustaceans** | LC50 daphnia, 48 hours: 7,550-13,299 mg/l |
| **Algae** | LC50 (algae, 72 hours): > 1,000 mg/l |

***12.2 Persistence and degradability***

The product is easily biodegradable

***12.3 Bioaccumulative potential***

Bioconcentration factor (BCF): Acetone 1; Isopropyl alcohol 3.
Log P octanol/water: Acetone - 0.2; Isopropyl alcohol 0.1.
No significant potential for bioaccumulation (BCF < 500 and log P octanol/water < 4).

***12.4 Mobility in soil***

The product is highly mobile in soil.
KoC coefficient: Acetone 0.6: Isopropyl alcohol  25.

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

The product has been assessed as containing no substances that can be viewed as PBT or vPvB substances.

***12.6 Other adverse effects***

The product is mildly harmful to water.
German hazard codes for water (WGK): Acetone 1; Isopropyl alcohol 1.

## 13. Disposal Considerations

***13.1 Waste treatment methods***

**Product**

Dispose of to a registered incineration plant for solvents, or as hazardous waste in accordance with local regulations. Do not dispose of the product in residual household waste. Prevent the waste product reaching sewers.

**Contaminated packaging**

Treat contaminated empty packaging as hazardous waste.

Treated packaging may be reused.

**Other safety information**

European list of waste (EURAL): 07 01 04

## 14. Transport Information

**Transport ADR and IATA:**

| | |
|---|---|
| Technical name: | : Flammable liquids, N.O.S. (Acetone, Isopropyl alcohol) 3, PGII |
| Class | : 3 |
| Pack Group | : II |
| UN Number | : 1993 |

**Other Safety information**

| | |
|---|---|
| Hazard label(s) | : 3 |
| Tunnel category | : (D/E) |
| Hazard identification nr: 33 | |
| Transport category | : 2 |
| Limited quantity (LQ) | : 1 L |
| Exempted quantity | : E2 |

## 15. Regulatory Information

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

Additional national regulations must be observed.

***15.2 Chemical safety assessment***

The product has not been assessed for chemical safety

## 16. Other Information

***16.1 Key changes since last version***

Application of the terms of Regulation (EC) No. 453/2010.

***16.2 Glossary of abbreviations and acronyms***

| | |
|---|---|
| CAS | Chemical Abstracts Service (Division of the American Chemical Society) |
| CLP | Classification, Labelling and Packaging |
| EC50 | Effect Concentration, 50 percent (concentration at which 50 per cent of animals show a particular effect) |
| EC | European Community |
| IC50 | Inhibitory Concentration, 50 percent (concentration at which 50 per cent of algae show growth inhibition) |
| LC50 | Lethal Concentration, 50 percent (concentration at which 50 per cent of animals die) |
| LD50 | Lethal Dose, 50 percent (dose at which 50 per cent of animals die) |
| PBT | Persistent, Bioaccumulative and Toxic |
| Ppm | Parts per million |
| TWA | Time Weighted Average |
| vPvB | very Persistent and very Bioaccumulative |

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