SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: RODINE 213

Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. (CONTAINS 12% w/w ISOPROPANOL AND 5% w/w PROPARGYL ALCOHOL)

Pack Size: 169482 (20 litres), 169481 (200 litres).

Use: Liquid pickling inhibitor for Hydrochloric acid.

Supplier: HENKEL AUSTRALIA PTY. LIMITED
ADHESIVE TECHNOLOGIES
135-141 Canterbury Road, Kilsyth, Victoria, 3137. Tel: (03) 9724 6444
24 HOUR EMERGENCY CONTACT NUMBER: Tel: 1800 032 379

SECTION 2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:
Hazardous according to the criteria of ASCC. This material has been classified as Harmful (Xn) and Irritant (Xi).

Risk Phrase(s):
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R36/38 - Irritating to eyes and skin.

Safety phrase(s):
S7 - Keep container tightly closed.
S16 - Keep away from sources of ignition.
S23 - Do not breathe vapour.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap suds.
S37/39 - Wear suitable gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

DANGEROUS GOODS INFORMATION:
Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Class: 3 - Flammable liquid
Subsidiary Risk: 6.1 - Toxic

SUSDP POISON SCHEDULE: 5

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<table>
<thead>
<tr>
<th>CHEMICAL ENTITY</th>
<th>CAS NO.</th>
<th>PROPORTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonionic surfactants</td>
<td></td>
<td>30-60% w/w</td>
</tr>
<tr>
<td>Complex substituted keto-amine</td>
<td>[67-63-0]</td>
<td>12% w/w</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>[107-19-7]</td>
<td>5% w/w</td>
</tr>
<tr>
<td>Propargyl alcohol</td>
<td>[67-64-1]</td>
<td>low, less than 5% w/w</td>
</tr>
<tr>
<td>Acetone</td>
<td>[7647-01-0]</td>
<td>low, less than 2% w/w</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

Ingestion: If swallowed, do not induce vomiting. For advice, contact a Poisons Information Centre (phone 13 11 26) or a doctor.

Skin: Remove contaminated clothing and wash affected areas with plenty of water. If irritation occurs, seek medical attention.

Eyes: Hold eyes open and flush with water for at least 15 minutes. Seek medical attention.

Inhalation: If inhaled, remove from contaminated area. For all but the most minor symptoms, arrange for patient to be seen by a doctor as soon as possible.

Advice to doctor: Treat symptomatically.

First Aid facilities: Eye wash and safety shower

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, foam, dry chemical, water fog.

Hazards from combustion products: Under fire conditions, it will produce carbon monoxide and acrid fumes.

Precautions for fire fighters and special protective equipment: Flammable liquid. Vapours are heavier than air and may accumulate in low areas or poorly ventilated areas to be ignited at locations distant from the handling site. Evacuate unprotected personnel from hazardous area. Fire-fighters should wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Isolate all potential sources of ignition. Wear protective gloves, chemical goggles and waterproof boots. Contain and collect spillage with inert absorbent materials (e.g. sand, earth, vermiculite). Transfer to sealable containers suitable for storing spilled material. Clean and flush areas in contact with spilled material with adequate water to render the area safe for human contact. Wash down waters may still contain residues which require treatment through local effluent treatment plant. Do not contaminate watercourse. Dispose of residues in chemical waste disposal area in accordance with relevant State and Federal requirements.

SECTION 7. HANDLING AND STORAGE

Safe Handling: Observe recommendations made under SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION. Always handle with impervious gloves and chemical splash goggles. Use full flameproof equipment and procedures.

Storage: Store indoors in a cool, dry, well ventilated area. Keep containers sealed when not in use. Protect from physical damage. Store according to relevant State Dangerous Goods Storage Requirements. Refer to AS 1940: The Storage and Handling of Flammable and Combustible Liquids.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards: TWA: 2.3 mg/m$^3$ as propargyl alcohol 400ppm (938 mg/m$^3$) as isopropanol STEL: 500ppm (1230 mg/m$^3$) as isopropanol

Engineering controls: A local mechanical exhaust system is required where vapour or mist is being generated.

Personal protective equipment: Use good industrial hygiene. Avoid contact with skin and eyes. Wear overalls, safety footwear, impervious gloves and chemical splash goggles. Use with adequate
ventilation. If inhalation risk exists, wear an organic vapour respirator complying with the requirements of AS 1715 and AS 1716.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data:**
- Appearance: Dark brown, viscous liquid.
- Specific gravity: 1.03 - 1.04 @ 20°C
- Solubility: Miscible with water
- Flash Point: 20°C approximately
- pH, concentrate: Less than 2
- Flammability: Flammable

**SECTION 10. STABILITY AND REACTIVITY**

**Chemical stability:** Stable under normal conditions of temperature and pressure.

**Conditions to avoid:** Heat, naked flames, sparks.

**Incompatible materials:** Keep away from strong acids (except hydrochloric acid), strong alkalies and oxidising agents. Avoid prolonged contact with metal containers and fittings.

**Hazardous decomposition products:** When heated to decomposition, it will emit carbon monoxide and acrid fumes.

**Hazardous reactions:** Product will not polymerise.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**HEALTH EFFECTS:**

**Acute:**
- Ingestion: This product is considered to be harmful if swallowed. Ingestion effects may include headache, nausea, vomiting, abdominal pain and central nervous system depression.
- Skin: Harmful in contact with skin. May cause moderate to severe irritation.
- Eyes: Liquid contact with the eyes can cause severe irritation.
- Inhalation: Harmful by inhalation. Inhalation of vapour may cause respiratory irritation, headache, dizziness, drowsiness and loss of co-ordination.

**Chronic:** Repeated or prolonged skin contact may cause defatting of the skin and lead to dermatitis. Frequent or prolonged inhalation exposure may result in liver and kidney disorders.

**Toxicity information:**
- Acute oral LD₅₀ (rat): 55 mg/kg as propargyl alcohol
- Acute skin LD₅₀ (rabbit): 88 mg/kg as propargyl alcohol

**SECTION 12. ECOLOGICAL INFORMATION**

Avoid contaminating watercourse and soil. Large discharges of this product may penetrate soil and contaminate groundwater. Toxic to aquatic organisms.

**Ecotoxicity:**
- Fish toxicity: 96 h LC₅₀ (L. idus): 4.6 mg/l as propargyl alcohol
- Daphnia toxicity: 24 h EC₅₀ (Daphnia magna): 11 mg/l as propargyl alcohol
SECTION 13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Normally suitable for disposal by incineration in approved incineration plant. Containers should be drained and triple rinsed with water prior to return to supplier or disposal at approved landfill site.

SECTION 14. TRANSPORT INFORMATION

UN Number: 1992
Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. (CONTAINS 12% w/w ISOPROPANOL AND 5% w/w PROPARGYL ALCOHOL)
Class: 3, Flammable
Subsidiary Risk: 6.1, Toxic
Packing Group: II
Hazchem code: •3WE
Emergency Information: Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76) or EPG 3A2

SECTION 15. REGULATORY INFORMATION

SUSDP POISON SCHEDULE: 5

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms:
ASCC - Australian Safety and Compensation Council
SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons
TWA - Time-weighted average

Reference:

DISCLAIMER:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.

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