Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Resene Brush Cleaner
Other Names: Solvent. PAINT RELATED MATERIAL. Product Code: 821000_.
Recommended Use: Emulsifiable solvent for brush cleaning

Company Name: Resene Paints (Australia) Limited T/A Altex Coatings.
Address: 7 Production Avenue
Molendinar, Queensland 4214.

Emergency Tel: Available Monday – Friday, 8:00 a.m. – 5:00 p.m.
Free Call: 1800 738 383
Phone: 07 3287 0222
Fax: 07 3287 0226

SECTION 2. HAZARDS IDENTIFICATION

Hazard Statement: HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the criteria of the GHS and the ADG code.

GHS Classification:
- Flammable liquid: Category 2
- Toxic to Reproduction: Category 2
- Skin Corrosion/Irritation: Category 2
- Aspiration Hazard: Category 1
- Specific Target Organ Toxicity (repeated exposure): Category 2
- Specific Target Organ Toxicity (single exposure): Category 3

Label Elements:

DANGER

Hazard Statements:
- Highly flammable liquid and vapour.
- Suspected of damaging fertility or the unborn child.
- Causes skin irritation.
- May be fatal if swallowed and enters airways.
- May cause damage to organs through prolonged or repeated exposure.
- May cause drowsiness or dizziness.

Precautionary statements:
- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Keep away from heat, sparks, open flames, hot surfaces – No smoking.
- Keep container tightly closed.
- Ground container and receiving equipment.
- Use explosion-proof electrical, ventilation, lighting and other equipment.
- Use non sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves, eye (or face) protection and other personal protection as required.
- Wash thoroughly after handling.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe vapour.
- Use only outdoors or in a well-ventilated area.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Toluene</td>
<td>108-88-3</td>
<td>&gt; 60</td>
</tr>
<tr>
<td></td>
<td>Alcohols, C12 – C14 secondary, ethoxylated</td>
<td>84133-50-6</td>
<td>10 - &lt; 30</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If exposed or concerned, or if you feel unwell, get medical advice or attention.

Swallowed

Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Rinse mouth with plenty of water then provide liquid slowly and as much as the person can comfortably drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Skin (or hair)

Remove immediately all contaminated clothing and wash before reuse. Wash skin with plenty of soap and water/shower. Call a POISON CENTRE or doctor if you feel unwell. Get medical advice if skin irritation occurs.

Inhaled

Remove victim to fresh air and keep at rest in a comfortable position for breathing. Call a POISON CENTRE or doctor if you feel unwell.

First Aid Facilities

Eye wash facilities

Symptoms caused by exposure

The normal routes of exposure are usually by skin contact with the material and/or inhalation of the vapour.

Initial contact with this product may cause skin and eye irritation.

Vapours may cause drowsiness or dizziness.

Long term use may cause defatting of the skin which may lead to Irritant Contact Dermatitis.

Inhalation of vapour over an extended period may result in nervous system impairment and liver and blood changes.

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in the workplace atmosphere, should be avoided. Ingestion in any form can be avoided by observing correct occupational hygiene.

Medical Attention and Special Treatment

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher

For small fires - Alcohol stable foam or carbon dioxide.

For large fires - Water spray or fog, or dry chemical powder.

Do not use water in a jet.

Hazards from combustion products

On combustion, this product may emit toxic fumes of carbon monoxide and carbon dioxide. May emit clouds of acrid smoke.

Special protective precautions and equipment for fire fighters

Wear breathing apparatus plus protective clothing and gloves.

Prevent, by any means available, spillage from entering drains or water course.

DO NOT approach containers suspected of being hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Vapours are heavier than air and can spread along the ground to distant ignition sources causing flashback.
SECTION 6. ACCIDENTAL RELEASE MEASURES

Emergency procedures
Avoid contact with spilled or released material. Avoid breathing vapour and avoid contact with skin and eyes.

Environmental precautions
Prevent, by any means available, spillage or fire fighting media from entering drains or water course. Acutely toxic to the aquatic environment.

Methods and materials for containment and clean up.

Minor spills
Contain and absorb small quantities with vermiculate or other non-flammable absorbent material.
Wipe up.
Control personal contact by using protective equipment.
Collect residues in a suitable waste container.

Major spills
Prevent, by any means available, spillage from entering drains or water course.
Stop leak if safe to do so.
Contain spill with sand, earth or vermiculite.
Collect recoverable product into labelled containers for recycling.
After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Avoid all personal contact, including inhalation.
Use and store in a well ventilated area.
When handling, DO NOT eat drink or smoke.
Avoid contact with incompatible materials.
Always wash hands with soap and water.
Observe proper occupational work practices.
Keep containers securely sealed when not in use.
Launder contaminated clothing before use.

Conditions for safe storage including any incompatibilities
Store locked up.
Check all containers are clearly labelled and free from leaks.
Keep containers securely sealed
Store in a cool dry, well-ventilated area, away from sources of ignition.
Avoid storage with oxidisers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards for mixture
No exposure standard has been established for this product.
Exposed individuals are not reasonably expected to be warned, by smell, that the exposure standard is being exceeded.
If the breathing zone concentration of ANY of the components is exceeded then the individual is deemed to be over exposed.

<table>
<thead>
<tr>
<th>Component(s) with exposure standards</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>191</td>
</tr>
</tbody>
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</tr>
<tr>
<td></td>
<td>50</td>
<td>191</td>
</tr>
</tbody>
</table>
Biological Limit Values

No biological limits set for this product.

Biological Monitoring

Not Required.

Engineering Controls

Use in a well ventilated area.
General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear an approved respirator in compliance with AS1716.

Personal Protection

Eyes.

Safety glasses with side shields.
Chemical goggles.
Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
DO NOT wear contact lenses.

Hands

Wear chemical protective gloves, e.g. Nitrile or nitrile-butatoluene rubber.
Do not use cotton, leather, PVC, rubber or polyethylene gloves as they will absorb the solvents.

Protective Clothing

Skin protection not ordinarily required beyond standard issue work clothes.
Wear safety footwear.

Respirator

Selection of the Class and Type of respirator will depend on the level of confinement of the contamination. The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Transparent, light orange liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Solvent odour</td>
</tr>
<tr>
<td>PH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>22 @ 20°C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>3.14</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Approx 110°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>4°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water – emulsifies</td>
</tr>
<tr>
<td>Density</td>
<td>0.89 Kg/L</td>
</tr>
<tr>
<td>UEL</td>
<td>7.1</td>
</tr>
<tr>
<td>LEL</td>
<td>1.2</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

Chemical stability

Product is considered stable.

Conditions to avoid

Ignition sources
Presence of incompatible materials.

Incompatible materials

Flammable liquids should not be stored with:
- Class 1 – Explosives
- Class 2 – Flammable gases
- Class 2.3 – Poisonous gases
- Class 4.2 – Spontaneously combustible substances
- Class 5.1 – Oxidising agents
- Class 5.2 – Organic peroxides
- Class 7 – Radioactive substances.
Hazardous decomposition products  Carbon monoxide may be evolved if incomplete combustion occurs.

Hazardous reactions  Reacts violently with strong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Health Effects:

Inhaled.
Harmful by inhalation. LC$_{50}$ (rat)>20mg/l/4 hours. Vapour concentrations above exposure limits may be irritating to the eyes and respiratory tract. May cause headaches and dizziness. Prolonged exposure may result in unconsciousness.

Skin Contact.
May cause moderate irritation to skin. Will have a degreasing effect on the skin.

Eye Contact.
Moderate to severe eye irritant. Vapours may also irritate. Will cause discomfort and may cause redness, itching or blurred vision.

Swallowed.
Harmful if swallowed, LD$_{50}$ (rat)>2000mg/kg. Can result in irritation, headaches, nausea, vomiting and diarrhoea. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Chronic Health Effects:
Repeat exposure to high doses can affect the nervous system, or may cause liver or kidney damage. Prolonged contact may cause defatting of the skin which can lead to contact irritant dermatitis. There is sufficient evidence, from animal studies, to suggest that exposure to toluene shows reason for concern owing to possible developmental toxic effects.

SECTION 12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment. Do not empty into drains. GHS classification; Hazardous to the Aquatic environment – Category Acute 2.

Toluene:

- Fish : Toxic 1<LC/EC/IC$_{50}$ <= 10 mg/L
- Aquatic Invertebrates : Harmful: 10<LC/EC/IC$_{50}$ <= 100 mg/L
- Algae : Low toxicity: LC/EC/IC$_{50}$ > 100 mg/L

Mobility - Floats on water, highly mobile and may contaminate groundwater.
Persistence/degradability – Readily biodegradable. Oxidises by photo-chemical reactions in air.
Bioaccumulation – Does not bioaccumulate significantly.

Alcohols, C12 – C14 secondary, ethoxylated:

- Fish : Toxic: LC$_{50}$ (96 Hrs.) 3.7mg/L, Species: Lepomis macrochirus Bluegill
- Aquatic Invertebrates : Very toxic: EC (48 Hrs.) 0.29mg/L, Species: Daphnia magna
- Algae : Very toxic: EC$_{50}$ (96 Hrs.) 0.05mg/L, Species: Scenedesmus subspicatus

Mobility/Persistence/Bioaccumulation – Not known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods and containers  Consult State Land Waste Management Authority for disposal.
Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area.
SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN Number</th>
<th>1263</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Proper shipping name</td>
<td>PAINT RELATED MATERIAL</td>
</tr>
<tr>
<td>Class</td>
<td>3 Flammable Liquid</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>None</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before commencing consider the use of mechanical ventilation to control exposure.</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>3[Y]E</td>
</tr>
</tbody>
</table>

SECTION 15. REGULATORY INFORMATION

Poison Schedule 6 [SUSMP]
AICS: Listed

FIRST AID:

A For advice, contact a Poisons Information Centre, Australia 13 1126; New Zealand 0800 764 766, or a doctor at once.
G3 If swallowed, do NOT induce vomiting.

SAFETY DIRECTIONS:

1, 4 & 8 Avoid contact with eyes, skin and avoid breathing dust, vapour or spray mist.

SECTION 16. OTHER INFORMATION

Date of Preparation: 3rd April 2013

Supersedes: 4th May 2010

Literature references.


MSDS’s for individual raw materials.


Standard for the Uniform Scheduling of Medicines and Poisons. No. 2

Abbreviations:

ADG       Australian Code for the Transport of Dangerous Goods by Road & Rail
LD₅₀       Median lethal dose
LC₅₀       Median lethal concentration.
TWA        Time weighted average
STEL       Short term exposure limit
CAS Number Chemical Abstract Service registry number

Safety data sheets are updated frequently. Please ensure that you have a current copy.

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END OF SDS