# Safety Data Sheet

## SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<table>
<thead>
<tr>
<th><strong>Product identifier</strong></th>
<th><strong>Methylated Spirits</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Variants</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Product code(s)</strong></td>
<td>827</td>
</tr>
<tr>
<td><strong>Proper shipping name</strong></td>
<td>ETHANOL</td>
</tr>
<tr>
<td><strong>Recommended use</strong></td>
<td>Solvent</td>
</tr>
<tr>
<td><strong>Manufacture / Importer details</strong></td>
<td>Resene Paints (Australia) Limited. 7 Production Avenue, Molendinar, Queensland, 4214.</td>
</tr>
</tbody>
</table>

**Emergency phone numbers**
- Available Monday – Friday, 8:00 a.m. – 5:00 p.m.
- Free call: 1800 738 383
- Phone: 07 3287 0222
- Fax: 07 3287 0227
- Poisons Information Centre: 131126 [available 24 hours]

## SECTION 2. HAZARDS IDENTIFICATION

Classification of the hazardous chemical or mixture according to the criteria of Safe Work Australia

<table>
<thead>
<tr>
<th><strong>GHS Classification</strong></th>
<th>Flammable Liquids Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Label elements</strong></td>
<td></td>
</tr>
<tr>
<td>Flame</td>
<td></td>
</tr>
<tr>
<td><strong>Signal word</strong></td>
<td>DANGER</td>
</tr>
</tbody>
</table>

**Hazard statements**
- H225 Highly flammable liquid and vapour.

**Precautionary statements: Prevention**
- P210 Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P240 Ground/Bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating and lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 + P281 Wear protective gloves, eye protection/face protection and other personal protection as required.

**Precautionary statements: Response**
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370 + P378 In case of fire: Use foam/water spray/fog for extinction.

**Precautionary statements: Storage**
- P403 + P235 Store in a well-ventilated place. Keep cool.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>% [weight]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ethanol</td>
<td>64-17-5</td>
<td>≥ 95</td>
</tr>
<tr>
<td></td>
<td>Water</td>
<td>7732-18-5</td>
<td>≤ 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Description of necessary first aid measures

Ingestion
Rinse mouth with plenty of water then provide liquid slowly and as much as the person can comfortably drink.
If swallowed DO NOT induce vomiting. If vomiting occurs, place person on their left side, tilt head back to maintain open airway and to prevent aspiration.
Observe patient and seek medical attention immediately.

Eye contact
Immediately flush eyes with fresh water. Continue rinsing for several minutes. Ensure complete irrigation of the eye by holding the eyelids apart and away from the eye. Seek medical attention if pain persists or recurs. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin contact
Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash skin with soap if available. Seek medical attention if irritation persists or if a rash develops.

Inhaled
Remove victim to fresh air and keep at rest in a comfortable position for breathing. See medical advice if you feel unwell.

First Aid Facilities
Safety shower and eye wash facilities.

Aggravated medical conditions caused by exposure.
The normal routes of exposure are usually by skin contact with the material and/or inhalation of the vapour.
Contact with skin or eyes may cause irritation. Prolonged or repeated skin contact with the liquid may cause Irritant Contact Dermatitis.
Inhalation of vapour or mists may cause irritation to the respiratory tract.

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.

Advice to Doctor
Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Carbon dioxide. Foam. Dry chemical powder.
For large fires – Water spray or fog.

Specific hazards
Flammable liquid and vapour. On combustion this product may emit toxic fumes and clouds of acrid smoke. Vapours are heavier than air and will accumulate. Vapours will form explosive concentrations with air. Vapours travel long distances and will flash back.

Special protective equipment and precautions for fire fighters
Wear breathing apparatus plus chemical protective suit and gloves. DO NOT approach containers suspected of being hot. May be violently or explosively reactive.
Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Eliminate all ignition sources. Avoid contact with spilled or released material. Avoid breathing vapour and avoid contact with skin and eyes. Control personal contact by using protective equipment. Clean up spills immediately.

Environmental precautions
May be harmful to the aquatic environment. Prevent, by any means available, spillage from entering drains or water course or soil.

Methods and materials for containment and clean up.
Contain and soak up released material with fire-resistant absorbent such as sand, earth or vermiculite. Cover drains to prevent material from entering waterways. Stop leak if safe to do so. Using only spark-free shovels and explosion proof equipment collect absorbent material and seal in labelled drums for proper disposal. Dispose of in accordance with local, state and federal regulations.

Seek assistance from emergency services for large spills. Evacuate unprotected personnel from the immediate vicinity. Contain released material then blanket the spill using foam (where available) to prevent the spread of vapour.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Do not get in eyes, on skin, or on clothing. Wear personal protection equipment. Do not breathe vapours. When handling, do not eat drink or smoke. Always wash hands with soap and water after handling. Observe proper occupational hygiene work practices. Use only in a well-ventilated area. Use mechanical extraction to remove vapour where necessary. Avoid smoking, naked lights, heat and other ignition sources. Vapour may ignite on pumping or pouring due to static electricity. Do not use plastic buckets. Use spark free tools when handling.

Conditions for safe storage including any incompatibilities
Store in original container in an approved flammable liquids storage area. Check all containers are clearly labelled and free from leaks. Keep containers securely sealed when not in use. Store in a cool dry, well-ventilated area, away from sources of ignition. Avoid storage with oxidisers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Australian national exposure standards
Exposed individuals are not reasonably expected to be warned, by smell, that an exposure standard is being exceeded. If the breathing zone concentration of ANY of the components listed below is exceeded then the individual is deemed to be over exposed.

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA ppm</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>1000</td>
<td>1880</td>
</tr>
</tbody>
</table>

Biological Limit Values
No biological limit values set.

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 to maintain vapour levels below the Lower Explosion Limit [LEL] for the solvents used. If the risk of overexposure exists, wear an approved respirator.

Individual protection measures including Personal Protection Equipment (PPE)

Eye and face protection
Wear safety glasses or goggles. Avoid wearing contact lenses. Contact lenses pose a special hazard; soft lenses may concentrate and absorb irritants.
Skin protection  
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 resin and solvents.

Protective clothing  
Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres. Wear safety footwear.

Respiratory protection  
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. Refer to AS1716 for selection of an appropriate respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear colourless liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcoholic</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>44 mmHg @ 20°C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>1.59 (air = 1)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>78°C</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-117 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>13°C (abel)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.79 – 0.81</td>
</tr>
<tr>
<td>UEL</td>
<td>19%</td>
</tr>
<tr>
<td>LEL</td>
<td>3.5%</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>392 °C</td>
</tr>
<tr>
<td>VOC</td>
<td>800g/L</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

Reactivity  
Not established.

Chemical stability  
Product is considered stable.

Conditions to avoid  
Ignition sources. Presence of incompatible materials.

Incompatible materials  
Strong oxidising agents

Hazardous decomposition products  
Carbon monoxide may be evolved if incomplete combustion occurs.

Hazardous reactions  
Hazardous polymerisation will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological information for this product is not available. Reference is made where possible to the individual constituents of the mixture.

Toxicology Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD₅₀</th>
<th>LC₅₀</th>
<th>Further Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>7060mg/kg rat (oral)</td>
<td>5900mg/m³ (6 hours) Rat</td>
<td>Sensitisation: No Mutagenicity: No Carcinogenicity: No Reproductive toxicity: No</td>
</tr>
</tbody>
</table>

Acute Health Effects:

Printed: 07/10/15  
Resene Paints (Australia) Limited  
Prepared: 07/10/2015  
Issue 03
Inhaled.
Inhalation of vapours may cause irritation to the respiratory system.

Skin Contact.
Mild irritant.

Eye Contact.
Irritating to eyes. Vapours may irritate the eyes. Liquid or mists may severely irritate or damage eyes.

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

**Chronic Health Effects:**

Prolonged contact may cause defatting of the skin which can lead to dermatitis. Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.

### SECTION 12. ECOLOGICAL INFORMATION

Do not empty into drains and avoid release to the environment.

**Ecotoxicity:**
- Fish: Expected to be harmful.
- Aquatic Invertebrates: Expected to be harmful.
- Aquatic algae: Expected to be toxic.
- Microorganisms: Expected to be harmful.

**Mobility:** Miscible with water.

**Persistence/degradability:** Biodegradable.

**Bioaccumulation:** No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

**PRODUCT:** Product/ Rinsates/ Spillage from packaging or equipment are not to be discharged to the environment. Organise disposal with recognised specialised hazardous waste operators.

**PACKAGING:** Decontaminate the packaging by triple rinsing. Allow to dry then puncture/crush the package to render it incapable of holding other product. Offer for disposal to the local landfill or recycle steel containers via steel can recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between local authorities. Check with your local Council first.

**Special precautions for landfill or incineration**

Incinerate dry, cured residue at an approved site.

### SECTION 14. TRANSPORT INFORMATION

**UN number** 1170

**UN proper shipping name** ETHANOL

**Class** 3

**Subsidiary risk** None

**Marine pollutant** No

**Packing Group** II

**Special precautions for user** Flammable. Keep dry. Keep separate from foodstuffs.

**Hazchem code** 2[Y]E

### SECTION 15. REGULATORY INFORMATION

**SUSMP:** Poison Schedule: 5

**AICS:** Listed chemical
SECTION 16. OTHER INFORMATION

Date of Preparation: 7th October 2015

Supersedes: 6th January 2011

Literature references:


SDS’s for individual raw materials.

Safe Work Australia: Hazardous Substances Information System:
Exposure Standards:

GHS Hazardous Substances list:


Abbreviations:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADG</td>
<td>Australian Code for the Transport of Dangerous Goods by Road &amp; Rail</td>
</tr>
<tr>
<td>AICS</td>
<td>Australian Inventory of Chemical Substances</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labelling of Chemicals</td>
</tr>
<tr>
<td>HVICL</td>
<td>High Volume Industrial Chemicals List</td>
</tr>
<tr>
<td>NOHSC</td>
<td>National Occupational Health and Safety Commission</td>
</tr>
<tr>
<td>SUSMP</td>
<td>Standard for the Uniform Scheduling of Medicines and Poisons</td>
</tr>
<tr>
<td>CAS Number</td>
<td>Chemical Abstract Service registry number</td>
</tr>
<tr>
<td>LD₅₀</td>
<td>Median lethal dose</td>
</tr>
<tr>
<td>LC₅₀</td>
<td>Median lethal concentration.</td>
</tr>
<tr>
<td>TWA</td>
<td>Time weighted average. The average airborne concentration of a particular substance when calculated over a normal 8 hour working day, for a five-day working week.</td>
</tr>
</tbody>
</table>

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

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END OF SDS