RESENE BRUSHING ADDITIVE

Resene Paints

Version No: 1.2
Safety Data Sheet according to HSNO Regulations

Issue Date: 06/12/2017
Print Date: 06/12/2017
L.GHS.NZL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>RESENE BRUSHING ADDITIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Not Available</td>
</tr>
<tr>
<td>Other means of identification</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

10002

Details of the supplier of the safety data sheet

Registered company name

Resene Paints

Address

PO Box 38242 Wellington Mail Centre Lower Hutt 5045 New Zealand

Telephone

+64 4 577 0500

Fax

+64 4 577 0600

Website

www.resene.co.nz

Email

advice@resene.co.nz

Emergency telephone number

Association / Organisation

NZ POISONS (24hr 7 days)

Emergency telephone numbers

0800 764 766

Other emergency telephone numbers

Not Available

CHEMWATCH EMERGENCY RESPONSE

Primary Number

+800 2436 2255

Alternative Number 1

+800 2436 2255

Alternative Number 2

+612 9186 1132

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Specific target organ toxicity - repeated exposure Category 2


Determined by Chemwatch using GHS/HSNO criteria

6.9B

Label elements

Hazard pictogram(s)

SIGNAL WORD

WARNING

Hazard statement(s)

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s) Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary statement(s) Response

P314 Get medical advice/attention if you feel unwell.

Continued...
SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances
See section below for composition of Mixtures
Ingredients are required by the Hazard Substances (Identification) Regulations 2001 to be identified:

Mixtures

<table>
<thead>
<tr>
<th>CAS No</th>
<th>%[weight]</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5</td>
<td>1-10</td>
<td>diethylene glycol monobutyl ether</td>
</tr>
</tbody>
</table>

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid measures

Eye Contact
If this product comes in contact with the eyes:
- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- 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
If skin or hair contact occurs:
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

Inhalation
If fumes, aerosols or combustion products are inhaled remove from contaminated area.
Other measures are usually unnecessary.

Ingestion
Immediately give a glass of water.
First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media
The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used.

Special hazards arising from the substrate or mixture

Fire Incompatibility
None known.

Advice for firefighters

Fire Fighting
- Alert Fire Brigade and tell them location and nature of hazard.

Fire/Explosion Hazard
- The material is not readily combustible under normal conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
See section 8

Environmental precautions
See section 12

Methods and material for containment and cleaning up

Minor Spills
- Clean up all spills immediately. Contain spill with sawdust or sand then place in suitable container for disposal. Clean area with large quantity of water to complete clean-up.

Major Spills
- Contain spill with sawdust or sand then place in suitable container for disposal. Clean area with large quantity of water to complete clean-up. Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling
SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

**INGREDIENT DATA**
Not Available

**EMERGENCY LIMITS**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Material name</th>
<th>TEEL-1</th>
<th>TEEL-2</th>
<th>TEEL-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylene glycol monobutyl ether</td>
<td>Butoxyethoxyethanol, 2-[(2-(Diethylene glycol monobutyl ether) 30 ppm</td>
<td>33 ppm</td>
<td>200 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Original IDLH</th>
<th>Revised IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylene glycol monobutyl ether</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

**MATERIAL DATA**

For diethylene glycol monobutyl ether:

- CEL TWA: 15.5 ppm, 100 mg/m³
- (CEIL = Chemwatch Exposure Limit)

In studies involving the inhalation toxicity of diethylene glycol monobutyl ether, exposure for 6 hours daily at 100 mg/m³ had no effect.

Exposure controls

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal protection</td>
<td>Safety glasses with side shields.</td>
</tr>
<tr>
<td>Eye and face protection</td>
<td>See Hand protection below</td>
</tr>
<tr>
<td>Skin protection</td>
<td>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.</td>
</tr>
<tr>
<td>Hands/feet protection</td>
<td>Wear chemical protective gloves, e.g. PVC.</td>
</tr>
<tr>
<td>Body protection</td>
<td>See Other protection below</td>
</tr>
<tr>
<td>Other protection</td>
<td>Overalls.</td>
</tr>
<tr>
<td>Thermal hazards</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Respiratory protection

No special measures required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>TEEL-1</th>
<th>TEEL-2</th>
<th>TEEL-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Slightly milky liquid with mild odour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH (as supplied)</td>
<td>7-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point (°C)</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range (°C)</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not Available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 10 STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure (kPa)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solubility in water (g/L)</td>
<td>Miscible</td>
</tr>
<tr>
<td>Vapour density (Air = 1)</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH as a solution (1%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>VOC g/L</td>
<td>477</td>
</tr>
</tbody>
</table>

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

**Inhaled**
Exposure to aliphatic alcohols with more than 3 carbons may produce central nervous system effects such as headache, dizziness, drowsiness, muscle weakness, delirium, CNS depression, coma, seizure, and neurobehavioural changes. Inhalation hazard is increased at higher temperatures.

**Ingestion**
Ingestion of propylene glycol produced reversible central nervous system depression in humans following ingestion of 60 ml. Effects on the nervous system characterise over-exposure to higher aliphatic alcohols.

**Skin Contact**
A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts. Most liquid alcohols appear to act as primary skin irritants in humans. Open cuts, abraded or irritated skin should not be exposed to this material.

**Eye**
Irritation of the eyes may produce a heavy secretion of tears (lachrymation). Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals.

**Chronic**
Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

### RESENTE BRUSHING ADDITIVE

<table>
<thead>
<tr>
<th>TOXICITY</th>
<th>IRRITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

### diethylene glycol monobutyl ether

<table>
<thead>
<tr>
<th>TOXICITY</th>
<th>IRRITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal (rabbit) LD50: 2700 mg/kg\textsuperscript{[2]}</td>
<td>Eye (rabbit): 20 mg/24h moderate</td>
</tr>
<tr>
<td>Oral (rat) LD50: 4500 mg/kg\textsuperscript{[2]}</td>
<td>Eye (rabbit): 5 mg - SEVERE</td>
</tr>
</tbody>
</table>

**Legend:**
1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2: * Value obtained from manufacturer’s SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

### DIETHYLENE GLYCOL MONOBUTYL ETHER

The material may produce severe irritation to the eye causing pronounced inflammation. For diethylene glycol monoalkyl ethers and their acetates:
This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates.

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td></td>
</tr>
<tr>
<td>Skin Irritation/Corrosion</td>
<td></td>
</tr>
<tr>
<td>Serious Eye Damage/Irritation</td>
<td></td>
</tr>
<tr>
<td>Respiratory or Skin sensitisation</td>
<td></td>
</tr>
<tr>
<td>Mutagenicity</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
</tr>
<tr>
<td>Reproductivity</td>
<td></td>
</tr>
<tr>
<td>STOT - Single Exposure</td>
<td></td>
</tr>
<tr>
<td>STOT - Repeated Exposure</td>
<td></td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- Data available but does not fill the criteria for classification
- Data available to make classification
- Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

**Toxicity**

<table>
<thead>
<tr>
<th>RESENTE BRUSHING ADDITIVE</th>
<th>ENDPOINT</th>
<th>TEST DURATION (HR)</th>
<th>SPECIES</th>
<th>VALUE</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
**Section 13 Disposal Considerations**

**Waste Treatment Methods**

- **Product / Packaging disposal**
  - Legislation addressing waste disposal requirements may differ by country, state and/or territory.
  - **DO NOT** allow wash water from cleaning or process equipment to enter drains.
  - Recycle whenever possible.
  - Consult manufacturer for recycling option.
  - Resene Paintwise accepts residual unwanted paint and packaging. See Resene website for Paintwise information.

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

**Section 14 Transport Information**

**Labels Required**

<table>
<thead>
<tr>
<th>Marine Pollutant</th>
<th>HAZCHEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Land Transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Air Transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Sea Transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**Section 15 Regulatory Information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

- **HSR Number**
  - HSR002670
  - Surface Coatings and Colours (Subsidiary Hazard) Group Standard 2006

**Diethylene Glycol Monobutyl Ether (112-34-5) is found on the following regulatory lists**

- **New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals**
- **New Zealand Inventory of Chemicals (NZIoC)**

**Location Test Certificate**

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Quantity beyond which controls apply for closed containers</th>
<th>Quantity beyond which controls apply when use occurring in open containers</th>
</tr>
</thead>
</table>
Approved Handler
Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

<table>
<thead>
<tr>
<th>Class of substance</th>
<th>Quantities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Refer Group Standards for further information

Tracking Requirements
Not Applicable

<table>
<thead>
<tr>
<th>National Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia - AICS</td>
<td>Y</td>
</tr>
<tr>
<td>New Zealand - NZIoC</td>
<td>Y</td>
</tr>
</tbody>
</table>

Legend:
Y = All ingredients are on the inventory
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information
Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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