

RESENE ARMOURCAT 823 GLOSS

Resene Paints Ltd

Version No: 1.1
Safety Data Sheet according to HSNO Regulations

Issue Date: **13/09/2018**
Print Date: **13/09/2018**
L.GHS.NZLEN

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

Product Identifier

| | |
|-------------------------------|--|
| Product name | RESENE ARMOURCAT 823 GLOSS |
| Synonyms | Incl. White and Ultra Deep bases |
| Proper shipping name | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) |
| Other means of identification | Not Available |

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

| | |
|--------------------------|------------|
| Relevant identified uses | 8315, 8316 |
|--------------------------|------------|

Details of the supplier of the safety data sheet

| | |
|-------------------------|---|
| Registered company name | Resene Paints Ltd |
| Address | 32-50 Vogel Street 5011 Naenae Wellington New Zealand |
| Telephone | +64 4 577 0500 |
| Fax | +64 4 5773327 |
| Website | www.resene.co.nz |
| Email | advice@resene.co.nz |

Emergency telephone number

| | |
|-----------------------------------|--------------------------|
| Association / Organisation | NZ POISONS (24hr 7 days) |
| Emergency telephone numbers | 0800 764766 |
| Other emergency telephone numbers | Not Available |

CHEMWATCH EMERGENCY RESPONSE

| Primary Number | Alternative Number 1 | Alternative Number 2 |
|----------------|----------------------|----------------------|
| +800 2436 2255 | +61 2 9186 1132 | Not Available |

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

| | |
|---|--|
| Classification ^[1] | Flammable Liquid Category 3, Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 2, Chronic Aquatic Hazard Category 3 |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |
| Determined by Chemwatch using GHS/HSNO criteria | 6.5B (contact), 9.1C, 6.7B, 6.1E (oral), 8.3A, 6.9B, 6.3A, 6.8B, 3.1C |

Label elements

| | |
|---------------------|---|
| Hazard pictogram(s) |  |
|---------------------|---|

SIGNAL WORD **DANGER**

Hazard statement(s)

| | |
|------|------------------------------|
| H226 | Flammable liquid and vapour. |
| H303 | May be harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |

Continued...

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H371 | May cause damage to organs. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statement(s) Prevention

| | |
|------|---|
| P201 | Obtain special instructions before use. |
|------|---|

Precautionary statement(s) Response

| | |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|----------------|--|

Precautionary statement(s) Storage

| | |
|-----------|--|
| P403+P235 | Store in a well-ventilated place. Keep cool. |
|-----------|--|

Precautionary statement(s) Disposal

| | |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**Substances**

See section below for composition of Mixtures

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017 to be identified:

Mixtures

| CAS No | %[weight] | Name |
|-----------|-----------|---------------------|
| 71-36-3 | 10-20 | <u>n-butanol</u> |
| 50-00-0 | <0.5 | <u>formaldehyde</u> |
| 100-41-4 | 1-10 | <u>ethylbenzene</u> |
| 1330-20-7 | 20-40 | <u>xylene</u> |

SECTION 4 FIRST AID MEASURES**Description of first aid measures**

| | |
|---------------------|---|
| Eye Contact | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> ▶ Immediately hold eyelids apart and flush the eye continuously with 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. ▶ Continue flushing for at least 15 minutes. ▶ Transport to hospital or doctor without delay. |
| Skin Contact | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. |
| Inhalation | <ul style="list-style-type: none"> ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary. |
| Ingestion | <ul style="list-style-type: none"> ▶ If swallowed do NOT induce vomiting. ▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. ▶ Observe the patient carefully. ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice. ▶ If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES**Extinguishing media**

- ▶ Alcohol stable foam.

Special hazards arising from the substrate or mixture

| | |
|-----------------------------|---|
| Fire Incompatibility | ▶ Avoid contamination with oxidising agents |
|-----------------------------|---|

Advice for firefighters

| | |
|------------------------------|---|
| Fire Fighting | ▶ Alert Fire Brigade and tell them location and nature of hazard. |
| Fire/Explosion Hazard | ▶ Liquid and vapour are flammable. |

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 | ▶ Remove all ignition sources. Contain spill with inert non- combustible absorbent then place in suitable container for disposal. Clean area with large quantity of water to complete clean-up. |
| Major Spills | Remove all ignition sources. Clear area of personnel and move upwind. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non- combustible material onto spillage. Use clean non- sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authority. |

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------|---|
| Safe handling | ▶ Containers, even those that have been emptied, may contain explosive vapours. ▶ Avoid unnecessary personal contact, including inhalation. ▶ DO NOT allow clothing wet with material to stay in contact with skin |
| Other information | ▶ Store in original containers in approved flammable liquid storage area. |

Conditions for safe storage, including any incompatibilities

| | |
|--------------------------------|---|
| Suitable container | ▶ Packing as supplied by manufacturer. |
| Storage incompatibility | ▶ may ignite in contact with strong oxidisers |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|--|--------------|------------------------------|---------------------------------|---------------------------------|--------------------------------|---|
| New Zealand Workplace Exposure Standards (WES) | n-butanol | n-Butyl alcohol | Not Available | Not Available | 50 ppm / 150 mg/m ³ | (skin) - Skin absorption |
| New Zealand Workplace Exposure Standards (WES) | formaldehyde | Formaldehyde | 0.5; 0.33 ppm | Not Available | 1 ppm | 6.7A - Confirmed carcinogen; (sen) - Sensitiser; (2013) |
| New Zealand Workplace Exposure Standards (WES) | ethylbenzene | Ethyl benzene | 100 ppm / 434 mg/m ³ | 543 mg/m ³ / 125 ppm | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | xylene | Dimethylbenzene (see Xylene) | 50 ppm / 217 mg/m ³ | Not Available | Not Available | Not Available |


EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|--------------|--------------------------------|---------------|---------------|---------------|
| n-butanol | Butyl alcohol, n-; (n-Butanol) | 60 ppm | 800 ppm | 8000 ppm |
| formaldehyde | Formaldehyde | Not Available | Not Available | Not Available |
| ethylbenzene | Ethyl benzene | Not Available | Not Available | Not Available |
| xylene | Xylenes | Not Available | Not Available | Not Available |

| Ingredient | Original IDLH | Revised IDLH |
|--------------|---------------|---------------|
| n-butanol | 1,400 ppm | Not Available |
| formaldehyde | 20 ppm | Not Available |
| ethylbenzene | 800 ppm | Not Available |
| xylene | 900 ppm | Not Available |

Exposure controls

| | |
|--------------------------------|---|
| Appropriate engineering | CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could |
|--------------------------------|---|

| | |
|--------------------------------|--|
| controls | require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. |
| Personal protection |  |
| Eye and face protection | ▶ Safety glasses with side shields. |
| Skin protection | See Hand protection below |
| Hands/feet protection | ▶ Wear chemical protective gloves, e.g. PVC. |
| Body protection | See Other protection below |
| Other protection | ▶ Overalls. |

Respiratory protection

Respiratory protection required in insufficiently ventilated working areas and during spraying. An approved respirator with a replaceable vapour/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to AS/NZS 1715 Standard, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 Standard, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|---------------------------|--|---------------|
| Appearance | This product is a mixture | | |
| Physical state | Liquid | Relative density (Water = 1) | 1.008-1.275 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 120-135 | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | 27-30 | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Flammable. | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | 52-60 |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | 427-450 |

SECTION 10 STABILITY AND REACTIVITY

| | |
|---|---------------|
| Reactivity | See section 7 |
| Chemical stability | ▶ stable |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | |
|---------------------|--|
| Inhaled | Inhalation hazard is increased at higher temperatures. Inhalation of vapours may cause drowsiness and dizziness. Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination |
| Ingestion | Accidental ingestion of the material may be damaging to the health of the individual. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result. |
| Skin Contact | The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. |

RESENE ARMOURCAT 823 GLOSS

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| Eye | When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. |
| Chronic | Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects. Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects. On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. When administered by inhalation, formaldehyde induced squamous cell carcinomas of the nasal cavity in rats of both sexes. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. |

| | | |
|-----------------------------------|-----------------|-------------------|
| RESENE ARMOURCAT 823 GLOSS | TOXICITY | IRRITATION |
| | Not Available | Not Available |

| | | |
|------------------|--|------------------------------------|
| n-butanol | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: 3400 mg/kg ^[2] | Eye (human): 50 ppm - irritant |
| | Inhalation (rat) LC50: 24 mg/l/4h ^[2] | Eye (rabbit): 1.6 mg-SEVERE |
| | Oral (rat) LD50: 790 mg/kg ^[2] | Eye (rabbit): 24 mg/24h-SEVERE |
| | | Skin (rabbit): 405 mg/24h-moderate |

| | | |
|---------------------|---|----------------------------------|
| formaldehyde | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: 270 mg/kg ^[2] | Eye (human): 4 ppm/5m |
| | Inhalation (rat) LC50: 249.71475 mg/l/4h ^[2] | Eye (rabbit): 0.75 mg/24H SEVERE |
| | Oral (rat) LD50: 100 mg/kg ^[2] | Skin (human): 0.15 mg/3d-I mild |
| | | Skin (rabbit): 2 mg/24H SEVERE |

| | | |
|---------------------|---|-------------------------------|
| ethylbenzene | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >5000 mg/kg ^[2] | Eye (rabbit): 500 mg - SEVERE |
| | Inhalation (mouse) LC50: 17.75 mg/l/2h ^[2] | Skin (rabbit): 15 mg/24h mild |
| | Oral (rat) LD50: 3500 mg/kg ^[2] | |

| | | |
|---------------|--|------------------------------------|
| xylene | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >1700 mg/kg ^[2] | Eye (human): 200 ppm irritant |
| | Inhalation (rat) LC50: 4994.295 mg/l/4h ^[2] | Eye (rabbit): 5 mg/24h SEVERE |
| | Oral (rat) LD50: 4300 mg/kg ^[2] | Eye (rabbit): 87 mg mild |
| | | Skin (rabbit): 500 mg/24h moderate |

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

| | |
|---------------------|---|
| N-BUTANOL | for n-butanol Acute toxicity: n-Butanol (BA) was only slightly toxic to experimental animals following acute oral, dermal, or inhalation exposure. |
| FORMALDEHYDE | No significant acute toxicological data identified in literature search. The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). WARNING: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS . Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen [National Toxicology Program: U.S. Dep. |
| ETHYLBENZENE | Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Liver changes, uterine tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. |
| XYLENE | The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Reproductive effector in rats |

RESENE ARMOURCAT 823 GLOSS

| | |
|---|---|
| RESENE ARMOURCAT 823 GLOSS & FORMALDEHYDE | The following information refers to contact allergens as a group and may not be specific to this product. |
| N-BUTANOL & FORMALDEHYDE | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. |
| N-BUTANOL & FORMALDEHYDE & ETHYLBENZENE & XYLENE | The material may produce severe irritation to the eye causing pronounced inflammation. |
| N-BUTANOL & ETHYLBENZENE & XYLENE | The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). |

| | | | |
|--|---|---------------------------------|---|
| Acute Toxicity | ✓ | Carcinogenicity | ✓ |
| Skin Irritation/Corrosion | ✓ | Reproductivity | ✓ |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | ✓ |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | ⊘ |
| Mutagenicity | ⊘ | Aspiration Hazard | ⊘ |

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

| RESENE ARMOURCAT 823 GLOSS | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|----------------------------|----------|--------------------|---------------|---------------|---------------|
| | | Not Available | Not Available | Not Available | Not Available |

| n-butanol | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|-----------|----------|--------------------|-------------------------------|-------------|--------|
| | LC50 | 96 | Fish | 100.000mg/L | 4 |
| | EC50 | 48 | Crustacea | >500mg/L | 1 |
| | EC50 | 96 | Algae or other aquatic plants | 225mg/L | 2 |
| | BCF | 24 | Fish | 921mg/L | 4 |
| | EC3 | 192 | Algae or other aquatic plants | >=100mg/L | 1 |
| | NOEC | 48 | Crustacea | 415mg/L | 2 |

| formaldehyde | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|--------------|----------|--------------------|-------------------------------|-----------|--------|
| | LC50 | 96 | Fish | 0.035mg/L | 4 |
| | EC50 | 48 | Crustacea | 0.3mg/L | 4 |
| | EC50 | 96 | Algae or other aquatic plants | 0.788mg/L | 4 |
| | NOEC | 96 | Algae or other aquatic plants | <0.1mg/L | 4 |

| ethylbenzene | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|--------------|----------|--------------------|-------------------------------|------------|--------|
| | LC50 | 96 | Fish | 0.0043mg/L | 4 |
| | EC50 | 48 | Crustacea | 1.184mg/L | 4 |
| | EC50 | 96 | Algae or other aquatic plants | 3.6mg/L | 4 |
| | NOEC | 168 | Crustacea | 0.96mg/L | 5 |

| xylene | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|--------|----------|--------------------|-------------------------------|----------|--------|
| | LC50 | 96 | Fish | 2.6mg/L | 2 |
| | EC50 | 48 | Crustacea | >3.4mg/L | 2 |
| | EC50 | 72 | Algae or other aquatic plants | 4.6mg/L | 2 |
| | NOEC | 73 | Algae or other aquatic plants | 0.44mg/L | 2 |

Legend: *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| | | |
|------------|-------------------------|------------------|
| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|------------------|

Continued...

RESENE ARMOURCAT 823 GLOSS

| | | |
|--------------|-----------------------------|-----------------------------|
| n-butanol | LOW (Half-life = 54 days) | LOW (Half-life = 3.65 days) |
| formaldehyde | LOW (Half-life = 14 days) | LOW (Half-life = 2.97 days) |
| ethylbenzene | HIGH (Half-life = 228 days) | LOW (Half-life = 3.57 days) |
| xylene | HIGH (Half-life = 360 days) | LOW (Half-life = 1.83 days) |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|--------------|---------------------|
| n-butanol | LOW (BCF = 0.64) |
| formaldehyde | LOW (LogKOW = 0.35) |
| ethylbenzene | LOW (BCF = 79.43) |
| xylene | MEDIUM (BCF = 740) |

Mobility in soil

| Ingredient | Mobility |
|--------------|----------------------|
| n-butanol | MEDIUM (KOC = 2.443) |
| formaldehyde | HIGH (KOC = 1) |
| ethylbenzene | LOW (KOC = 517.8) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|------------------------------|--|
| Product / Packaging disposal | <ul style="list-style-type: none"> ▶ Containers may still present a chemical hazard/ danger when empty. 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 wherever possible. <p>Consult manufacturer for recycling option. Resene Paintwise accepts residual unwanted paint and packaging. See Resene website for Paintwise information. Or contact a Local Authority for the disposal information. Do not discharge the substance into the environment.</p> |
|------------------------------|--|


Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package.

SECTION 14 TRANSPORT INFORMATION

Labels Required

| | |
|------------------|---|
| |  |
| Marine Pollutant | NO |
| HAZCHEM | *3Y |

Land transport (UN)

| | | | | | |
|------------------------------|--|--------------------|---------------|------------------|----------------|
| UN number | 1263 | | | | |
| UN proper shipping name | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) | | | | |
| Transport hazard class(es) | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px dashed black; padding-right: 5px;">Class</td> <td style="padding-left: 5px;">3</td> </tr> <tr> <td style="border-right: 1px dashed black; padding-right: 5px;">Subrisk</td> <td style="padding-left: 5px;">Not Applicable</td> </tr> </table> | Class | 3 | Subrisk | Not Applicable |
| Class | 3 | | | | |
| Subrisk | Not Applicable | | | | |
| Packing group | III | | | | |
| Environmental hazard | Not Applicable | | | | |
| Special precautions for user | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px dashed black; padding-right: 5px;">Special provisions</td> <td style="padding-left: 5px;">163; 223; 367</td> </tr> <tr> <td style="border-right: 1px dashed black; padding-right: 5px;">Limited quantity</td> <td style="padding-left: 5px;">5 L</td> </tr> </table> | Special provisions | 163; 223; 367 | Limited quantity | 5 L |
| Special provisions | 163; 223; 367 | | | | |
| Limited quantity | 5 L | | | | |

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

Sea transport (IMDG-Code / GGVSee)

| | |
|-------------------------|--|
| UN number | 1263 |
| UN proper shipping name | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) |

| | | |
|-------------------------------------|--------------------|-----------------|
| Transport hazard class(es) | IMDG Class | 3 |
| | IMDG Subrisk | Not Applicable |
| Packing group | III | |
| Environmental hazard | Not Applicable | |
| Special precautions for user | EMS Number | F-E , S-E |
| | Special provisions | 163 223 367 955 |
| | Limited Quantities | 5 L |

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 | Group Standard |
|------------|--|
| HSR002669 | Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017 |

N-BUTANOL(71-36-3) 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)

New Zealand Workplace Exposure Standards (WES)

FORMALDEHYDE(50-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Quantity beyond which controls apply for closed containers | Quantity beyond which controls apply when use occurring in open containers |
|--------------|--|--|
| 3.1C | 500 L in containers greater than 5 L 1500 L in containers up to and including 5 L | 250 L 250 L |

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities |
|--------------------|----------------|
| Not Applicable | Not Applicable |

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory | Status |
|-------------------------------|---|
| Australia - AICS | Y |
| Canada - DSL | Y |
| Canada - NDSL | N (n-butanol; xylene; ethylbenzene; formaldehyde) |
| China - IECSC | Y |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | Y |
| Korea - KECI | Y |

RESENE ARMOURCAT 823 GLOSS

| | |
|---------------------|--|
| New Zealand - NZIoC | Y |
| Philippines - PICCS | Y |
| USA - TSCA | Y |
| 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

| | |
|----------------------|------------|
| Revision Date | 13/09/2018 |
| Initial Date | 13/09/2018 |

Other information**Ingredients with multiple cas numbers**

| Name | CAS No |
|--------------|---|
| formaldehyde | 50-00-0, 8005-38-7, 8006-07-3, 8013-13-6, 112068-71-0 |

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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