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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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**1.1 Product identifier****Product name** MARX COLD-GAL**Synonyms** MX COLD GAL • MXCOLD - PRODUCT NUMBER**1.2 Uses and uses advised against****Uses** AEROSOL DISPENSED • COLD GALVANISING COMPOUND**1.3 Details of the supplier of the product****Supplier name** MASONRY CONSTRUCTION PRODUCTS PTY LTD**Address** 11/505 Maroondah Hwy, Ringwood, VIC, 3134, AUSTRALIA**Telephone** +61 3 9870 4242**Fax** +61 3 9870 3040**Email** [sales@masonrycp.com](mailto:sales@masonrycp.com)**Website** <http://www.masonrycp.com>**1.4 Emergency telephone numbers****Emergency** +61 3 9870 4242

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**2. HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards**

Aerosols - Flammable: Category 1

Aerosols - Pressurised: Category 1

**Health Hazards**

Skin Corrosion/Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 2A

Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation)

Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic Effects)

Carcinogenicity: Category 2

**Environmental Hazards**

Aquatic Toxicity (Chronic): Category 2

**2.2 GHS Label elements****Signal word** DANGER**Pictograms**

**PRODUCT NAME MARX COLD-GAL****Hazard statements**

|      |                                                  |
|------|--------------------------------------------------|
| H222 | Extremely flammable aerosol.                     |
| H229 | Pressurized container: may burst if heated.      |
| H315 | Causes skin irritation.                          |
| H319 | Causes serious eye irritation.                   |
| H335 | May cause respiratory irritation.                |
| H336 | May cause drowsiness or dizziness.               |
| H351 | Suspected of causing cancer.                     |
| H411 | Toxic to aquatic life with long lasting effects. |

**Prevention statements**

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                                        |
| P202 | Do not handle until all safety precautions have been read and understood.                      |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.                                              |
| P264 | Wash thoroughly after handling.                                                                |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P273 | Avoid release to the environment.                                                              |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  |

**Response statements**

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P302 + P352        | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| P321               | Specific treatment is advised - see first aid instructions.                                                                      |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                         |
| P391               | Collect spillage.                                                                                                                |

**Storage statements**

|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.     |
| P405        | Store locked up.                                                     |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C. |

**Disposal statements**

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

**2.3 Other hazards**

No information provided.

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**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

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**3.1 Substances / Mixtures**

| Ingredient                                                      | CAS Number | EC Number | Content   |
|-----------------------------------------------------------------|------------|-----------|-----------|
| DIMETHYL ETHER                                                  | 115-10-6   | 210-871-0 | 30 to 35% |
| ZINC POWDER - ZINC DUST (STABILISED)                            | 7440-66-6  | 231-175-3 | 16 to 20% |
| DICHLOROMETHANE (METHYLENE CHLORIDE)                            | 75-09-2    | 200-838-9 | 13 to 16% |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (<0.1% W/W BENZENE) | 64742-95-6 | 265-199-0 | 11 to 15% |
| ACRYLIC RESIN(S)                                                | -          | -         | 15 to 20% |

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**4. FIRST AID MEASURES**

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**4.1 Description of first aid measures**

|                   |                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye</b>        | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.                       |
| <b>Inhalation</b> | If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing. |
| <b>Skin</b>       | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.       |
| <b>Ingestion</b>  | For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If                                                                                                        |

**PRODUCT NAME    MARX COLD-GAL**

swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

**First aid facilities**      Eye wash facilities and safety shower should be available.

**4.2 Most important symptoms and effects, both acute and delayed**

Dichloromethane is classified as possibly carcinogenic to humans (IARC Group 2B). Individuals with impaired cardiovascular function, or who are heavy drinkers or smokers should avoid exposure as dichloromethane reduces the blood's oxygen carrying capacity.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

**5.2 Special hazards arising from the substance or mixture**

Extremely flammable. May evolve toxic gases (carbon oxides, hydrogen chloride, phosgene, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, etc when handling. Aerosol cans may explode at temperatures above 50°C.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

2YE  
2      Fine Water Spray.  
Y      Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.  
E      Evacuation of people in and around the immediate vicinity of the incident should be considered.

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**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

**6.2 Environmental precautions**

Prevent product from entering drains and waterways.

**6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

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**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool (< 50°C), dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems.

**7.3 Specific end uses**

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

| Ingredient         | Reference      | TWA |                   | STEL |                   |
|--------------------|----------------|-----|-------------------|------|-------------------|
|                    |                | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Dimethyl ether     | SWA [AUS]      | 400 | 760               | 500  | 950               |
| Methylene chloride | SWA [AUS]      | 50  | 174               | --   | --                |
| Mineral spirits    | SWA [Proposed] | 50  | 295               | 100  | 593               |
| Zinc oxide (dust)  | SWA [AUS]      | --  | 10                | --   | --                |

#### Biological limits

| Ingredient                           | Reference | Determinant              | Sampling Time | BEI      |
|--------------------------------------|-----------|--------------------------|---------------|----------|
| DICHLOROMETHANE (METHYLENE CHLORIDE) | ACGIH BEI | Dichloromethane in urine | End of shift  | 0.3 mg/L |

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

#### PPE

|                    |                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye / Face</b>  | Wear splash-proof goggles.                                                                                                                                            |
| <b>Hands</b>       | Wear PVA or Viton® gloves.                                                                                                                                            |
| <b>Body</b>        | When using large quantities or where heavy contamination is likely, wear coveralls.                                                                                   |
| <b>Respiratory</b> | Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator. Where the boiling point is < 65°C, use an AX filter type. |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                           |                                 |
|---------------------------|---------------------------------|
| Appearance                | GREY LIQUID (AEROSOL DISPENSED) |
| Odour                     | SOLVENT ODOUR                   |
| Flammability              | EXTREMELY FLAMMABLE             |
| Flash point               | -41°C                           |
| Boiling point             | NOT AVAILABLE                   |
| Melting point             | NOT AVAILABLE                   |
| Evaporation rate          | NOT AVAILABLE                   |
| pH                        | NOT AVAILABLE                   |
| Vapour density            | NOT AVAILABLE                   |
| Solubility (water)        | INSOLUBLE                       |
| Vapour pressure           | NOT AVAILABLE                   |
| Upper explosion limit     | 26.7 % (Dimethyl ether)         |
| Lower explosion limit     | 3.4 % (Dimethyl ether)          |
| Partition coefficient     | NOT AVAILABLE                   |
| Autoignition temperature  | NOT AVAILABLE                   |
| Decomposition temperature | NOT AVAILABLE                   |
| Viscosity                 | NOT AVAILABLE                   |
| Explosive properties      | NOT AVAILABLE                   |
| Oxidising properties      | NOT AVAILABLE                   |
| Odour threshold           | NOT AVAILABLE                   |

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), metals, heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, hydrogen chloride, phosgene, hydrocarbons) when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** May be harmful if inhaled. This product may have the potential to cause adverse health effects if intentionally misused (e.g. deliberately inhaling contents).

**Information available for the ingredients:**

| Ingredient                                                      | Oral LD50                                       | Dermal LD50                                     | Inhalation LC50                           |
|-----------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------|
| DIMETHYL ETHER                                                  | --                                              | --                                              | 308 g/m <sup>3</sup> (rat)                |
| ZINC POWDER - ZINC DUST (STABILISED)                            | > 2,000 mg/kg (rat)                             | --                                              | > 5.41 mg/l/4hrs (rat)                    |
| DICHLOROMETHANE (METHYLENE CHLORIDE)                            | > 2000 mg/kg (rat)<br>(OECD Test Guideline 401) | > 2000 mg/kg (rat)<br>(OECD Test Guideline 402) | 88 mg/L/30min; vapour<br>(rat) (IUCIID)   |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (<0.1% W/W BENZENE) | > 5000 mg/kg (OECD<br>TG 401)                   | > 2000 mg/kg (OECD<br>TG 402)                   | > 5610 mg/m <sup>3</sup> (OECD<br>TG 403) |

**Skin** Contact may result in drying and defatting of the skin, rash and dermatitis.

**Eye** Contact may result in irritation, lacrimation, pain and redness.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

**Mutagenicity** Insufficient data available to classify as a mutagen.

**Carcinogenicity** Suspected of causing cancer. Dichloromethane is classified as probably carcinogenic to humans (IARC Group 2A). Available data derived from animal studies suggests a plausible mechanism for the development of tumours within the liver and lungs.

**Reproductive** Insufficient data available to classify as a reproductive toxin.

**STOT - single exposure** Over exposure to dichloromethane may result in central nervous system (CNS) effects, dizziness, drowsiness, breathing difficulties, anaesthesia, cardiac arrhythmias, pulmonary oedema, unconsciousness and possible respiratory failure. Dichloromethane is metabolised to carbon monoxide which reacts with haemoglobin in the blood to prevent oxygen uptake and release.

**STOT - repeated exposure** Repeated exposure to dichloromethane may result in nerve (including brain), liver and lung damage. Individuals with impaired cardiovascular function, or who are heavy drinkers or smokers should avoid exposure as dichloromethane reduces the blood's oxygen carrying capacity.

**Aspiration** Ingestion is considered unlikely due to product form. However, if liquid component is ingested, aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

Dichloromethane is readily biodegradable as shown in a closed bottle test. Dichloromethane is a very volatile substance and the calculated half-life in air of dichloromethane is 107 days, in water 10.9 days and in soil 14.2 days. Therefore dichloromethane is not Persistent (REACH).

**12.3 Bioaccumulative potential**

Bioaccumulation of dichloromethane in aquatic species is unlikely in view of its physical and chemical properties (REACH).

**12.4 Mobility in soil**

If released to soil, dichloromethane is expected to have very high mobility based upon a measured Koc range of 8-48 (HSDB).

**12.5 Other adverse effects**

Avoid contamination of drains and waterways.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

**Waste disposal**            For small amounts, absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer/supplier for additional information (if required).

**Legislation**             Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

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**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**



|                                    | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|----------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | 1950                 | 1950                       | 1950                        |
| <b>14.2 Proper Shipping Name</b>   | AEROSOLS             | AEROSOLS                   | AEROSOLS                    |
| <b>14.3 Transport hazard class</b> | 2.1                  | 2.1                        | 2.1                         |
| <b>14.4 Packing Group</b>          | None allocated.      | None allocated.            | None allocated.             |

**14.5 Environmental hazards**

Marine Pollutant.

**14.6 Special precautions for user**

**Hazchem code**            2YE  
**GTEPG**                    2D1  
**EmS**                        F-D, S-U

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**15. REGULATORY INFORMATION**

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

**Poison schedule**            Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications**            Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

**Inventory listings**           **AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)**  
All components are listed on AIIC, or are exempt.

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**16. OTHER INFORMATION**

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**Additional information**

**WORK PRACTICES - SOLVENTS:** Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

**SYNERGISM - ANTAGONISM:** Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PHOSGENE:** When chlorinated hydrocarbons are exposed to excessive heat, toxic phosgene vapours may be evolved. The main hazard associated with phosgene is the lack of warning symptoms. At low concentrations, the sense of smell may become dulled. Therefore, there may be no immediate warning that dangerous concentrations are being inhaled. May cause pulmonary oedema, which is potentially fatal.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations**

|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
| ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
| CNS               | Central Nervous System                                                                          |
| EC No.            | EC No - European Community Number                                                               |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
| GHS               | Globally Harmonized System                                                                      |
| GTEPG             | Group Text Emergency Procedure Guide                                                            |
| IARC              | International Agency for Research on Cancer                                                     |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration                                         |
| LD50              | Lethal Dose, 50% / Median Lethal Dose                                                           |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre                                                                      |
| OEL               | Occupational Exposure Limit                                                                     |
| pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million                                                                               |
| STEL              | Short-Term Exposure Limit                                                                       |
| STOT-RE           | Specific target organ toxicity (repeated exposure)                                              |
| STOT-SE           | Specific target organ toxicity (single exposure)                                                |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
| SWA               | Safe Work Australia                                                                             |
| TLV               | Threshold Limit Value                                                                           |
| TWA               | Time Weighted Average                                                                           |

**Report status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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