

HiChem Paint Technologies Pty. Ltd.

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Email: msdsinfo@hichem.com.au [www:hichem.com.au](http://www.hichem.com.au)**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

| | | |
|---------------------|----------------------------------|---|
| Product Name | RETARDER 291 | RET291 |
| Product Use | Use as a solvent. | |
| Ingredients | Name | CAS Number Proportion w/w |
| | Ethylene Glycol Mono Butyl Ether | 111 – 76 – 2 60 – 100 % |

HAZARD IDENTIFICATION

The product is classified as **Hazardous Substance** accordance to NOHSC criteria.

Chronic Risk There are no assigned risk phrases.

Acute

Skin Risk 21,38 Harmful X_n, Irritant X_i

Inhalation Risk 20 Harmful X_n

Ingestion Risk 22 Harmful X_n

Eyes Risk 36 Irritant X_i

Safety Phrases 7/9,23.5,24/25,36/37/38/39 Further description, refer to page 4.

ADG Not classified in the current edition of "Australian Code for the Transport of

Classification Dangerous Goods by Road and Rail".

SUSDP Classified as a Schedule S 6 poison.

Classification

FIRST AID MEASURES

Inhalation If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim to the fresh air. Keep the victim warm and quiet until all symptoms subside.

Ingestion If swallowed, seek medical advice immediately. Show a copy of the label.

Eyes If splashed into eyes, hold eyes open, irrigate copiously with clean water for at least 15 minutes. Seek immediate medical attention if any irritation occurs.

Skin If skin contact occurs, remove contaminated clothing, and wash thoroughly with soap and plenty of water. Seek medical attention if any irritation occurs.

First Aid Facilities Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.

Advice to Doctor If poisoning occurs, consult with the Poisons Information Centre {Telephone **13 11 26**}. Have a copy of this material safety data sheet or label available. Treat symptomatically.



FIRE FIGHTING MEASURES

Extinguishing Media and Requirements Fire Fighting Procedures & Precautions

Carbon Dioxide {CO₂}, alcohol resistant foam, dry chemical or water spray. **DO NOT** use water jets. Bund area with sand to prevent run – off entering waterways and drains. Fire – fighters should wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep containers cool with water spray or water to prevent rupture or burning. Move away all containers and equipment from the direction of the fire, if safe to do so. Keep upwind.



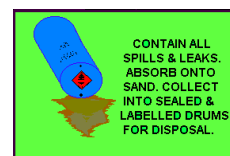
Flammability Hazardous Decomposition Products

Combustible Liquid. Flash Point = 64 °C
On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide.

ACCIDENTAL RELEASE MEASURES

Spills and Leaks

Contain all spills and leaks. Avoid contamination with spilt material on surfaces. Remove all sources of ignition and **NO SMOKING**. Wear the recommended full body impervious clothing, gloves and breathing apparatus as per AS– NZ 1715/16. Keep upwind. Absorb all spilt contents onto sand or earth.



Disposal

Collect all residues into labelled and sealed containers for disposal via special waste collection services as per local Statutory Authority requirements.

Other Precautions

Avoid contaminating waterways, drains, water courses and sewage.

HANDLING and STORAGE

Handling

Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin with soap and water.

Storage

Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Flammable Goods Store as per AS 1940 requirements.

EXPOSURE CONTROLS

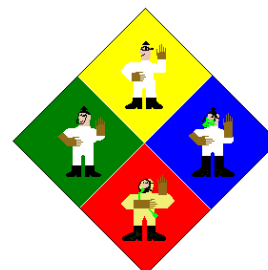
Exposure Standards MAK Engineering Controls

Ethylene Glycol Mono Butyl Ether = 20 mg/m³.

When using Retarder 291, ensure there is adequate ventilation at all times. Do not use in a confined space.

PERSONAL PROTECTION

| | |
|--------------------------------------|--|
| Inhalation AS –NZZ 1715/16 | An Organic Vapour Respirator must be worn during the application period. |
| Eye AS –NZZ 1337 | A face shield must be worn during the application period. Do not wear contact lenses. |
| Gloves AS –NZZ 2161 | Elbow – length Viton or PVC gloves must be worn during the application period. |
| Footwear AS –NZZ 2210 | The wearing of enclosed footwear is recommended during the application period |
| Clothing AS –NZZ 2919 | The wearing of anti–static clothing made on natural or synthetic high temperature fibre is recommended during the application period |
| Hearing AS –NZZ 1270 | Not required |
| Other Requirements | Avoid contact with eyes and skin. Avoid inhaling spray mists and vapours. |

**PHYSICAL – CHEMICAL PROPERTIES**

| | | |
|---|--|--------------------------------|
| Appearance | A colourless liquid with a mild odour. | |
| pH | Not required. | |
| Vapour Pressure (Butyl Acetate = 1) | Less than 1. | |
| Boiling Point ° C | 160 – 170 ° C {literature value} | |
| Density | 0.901 {literature value} | |
| Solubility in water | Soluble | |
| Flash Point ° C | 64 ° C {literature value} | |
| Flammability Limits | Lower Explosive Limit = 1.0 % | Upper Explosive Limit = 10.6 % |
| Auto Ignition ° C | 230 ° C {literature value} | |
| Volatile Components | Ethylene Glycol Mono Butyl Ether (EGMBE) | |

STABILITY and REACTIVITY

| | |
|---|--|
| Chemical Stability | Stable under normal conditions of use. |
| Conditions to avoid | Avoid contact with heat and all ignition sources. |
| Incompatible materials | Incompatible with strong oxidizing agents |
| Hazardous decomposition products | On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon monoxide. |
| Hazardous Reactions | Will not polymerize. |

TOXICOLOGICAL INFORMATION

| | | | |
|-----------------------|------------------|--------|--|
| Inhalation | LC ₅₀ | rat | No data available. |
| Skin | LD ₅₀ | rabbit | EGMBE = 220 mg/kilogram bodyweight/day |
| Ingestion | LD ₅₀ | rat | EGMBE = 470 mg/kilogram bodyweight/day |
| Eyes/Skin | | | R 36 Eye Irritant - EGBME R38 Skin Irritant - EGBME |
| Sensitization | | | No data.. |
| Health Effects | | | Not Known. |

ECOLOGICAL INFORMATION**Environment** No data available**DISPOSAL CONSIDERATIONS**

Collect all residues and placed into labelled and sealed containers. Do not incinerate empty containers after use. Dampen all unwanted cloths and rags in water prior to disposal. Do not recycle contents or spent containers. Crush all small empty containers. Larger containers and drums may be sent to an approved drum recycler. Ensure all contents do not pollute waterways, drains and other water courses.

TRANSPORT INFORMATION

| | | | |
|-----------------------------|-------------------------------|---|--------------|
| UN number | Not assigned | | |
| Proper Shipping Name | Deemed as Non Dangerous Goods | | |
| Class | Not assigned | Subsidiary Risk | Not Required |
| Packing Group | Not assigned | | |
| Emergency Procedures | | Initial Emergency Response Guide | 35 |
| HAZCHEM | Not Assigned | | |
| IMDG | Not Known | | |

**REGULATORY INFORMATION**

| | | |
|-----------------------------|--------------------------------------|---|
| Risk Phrases R | 65,66,67 20/21/22 36/38 | There are no assigned phrases. Harmful by inhalation, skin contact and if swallowed. Irritating to eyes and skin. |
| Safety Phrases S | 7/9 23.5 24/25 36/37/38/39 | Keep containers closed and in a well ventilated area when not in use. Avoid breathing vapours or spray mist. Avoid contact with skin and eyes. Wear recommended Personal Protective Equipment – protective clothing, gloves, boots, respirator and eye protection. |
| SUSDP Classification | Classified as a Schedule S 6 Poison. | |

OTHER INFORMATION

Emergency Contact **Poisons Information Centre 13 11 26** **HiChem Paint Technologies (03) 9796 3400**

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