



PU1 HARD GLAZE

MATERIAL SAFETY DATA SHEET

LAST REVISED: 1 SEPTEMBER 2026

SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Company:

Warrior Pte Ltd

Contact address:

17 Marsiling Industrial Estate Road 1 #01-11

Singapore 739279

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COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NO.	WT. %
Aliphatic Urethane	68987-79-1	40%
Coalescent	141-32-2	5%
Titanium Dioxide	13463-67-7	25%
Water	7732-18-5	30%

HAZARD IDENTIFICATION

Not classified as hazardous according to the criteria of ASCC.

Not classified as hazardous according to the criteria of HSNO Minimum degrees of hazard regulations.

Not classified as dangerous goods according to the Australian Code for Transport of Dangerous Goods (ADG).

Not classified as dangerous goods according to the Transport of Dangerous Goods on Land (NZS5433).

Risk phrase(s): None

Safety phrase(s): None

FIRST-AID MEASURES

After inhalation: Immediately seek fresh air after inhaling of vapour or aerosol.

After contact with skin: In case of contact with skin, wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes: Rinse the affected eye immediately with plenty of water. At the same time, keep the unaffected eye well protected.

Advice to doctor: Treat symptomatically.

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FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water fog, fine water spray, foam or dry agent.

Special protective precautions and equipment for fire fighters

Firefighters should use self contained breathing apparatus and protective gloves in case of fire.

ACCIDENTAL RELEASE MEASURES

Emergency procedures

The area in which the spill has occurred will be slippery.

Personnel involved in clean-up require adequate respiratory, skin and eye protection in case of large spillage. Use absorbent sand or similar. Collect and seal in properly labelled drums for disposal.

In case of spillage, prevent the material from entering drains or water courses.

Methods and materials for containment and clean up

Contain and collect for disposal. Recycle product if possible.

HANDLING AND STORAGE

Advice on safe handling

No special measures necessary if used correctly.

The product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with government regulations.

Advice on protection against fire and explosion

No special measures necessary

Advice on safe storage

Store in a cool place away from heat.

Shelf life

6 months when stored at 10 - 30 °C

EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards

No exposure standards have been set for this product or any components.

Occupational exposure controls

Engineering control

Provide exhaust ventilation where operating conditions may create excessive work place vapour or mists.

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Eye / Face protection / Skin protection

Wear eye/face protection. Avoid contact with the eyes.

Avoid contact with the skin.

Wear chemically resistant gloves and protective clothing.

Respiratory protection

Do not breathe vapour/ dust/ spray/ fumes.

In case of insufficient ventilation, wear suitable respiratory equipment.

Use an approved cartridge respirator when working at places of high gas/dust concentrations for a short time.

Hygiene measures

This preparation is classified as non-hazardous. However the usual precautions for handling chemicals must be observed to avoid contact with the skin, eyes and respiratory tract. In case of contact with the product, wash the eye immediately with running water and the skin with water and soap.

PHYSICAL AND CHEMICAL PROPERTIES

Solubility in water:	Miscible
Boiling point:	Approx 100°C
Flash point:	Not applicable
Specific gravity:	1.058
Volatile:	<0.2%
Minimum film forming temp:	< 0°C to 60 °C
pH value:	7.0 -9.5
Viscosity:	50 - 6500 CPS (Brookfield)

STABILITY AND REACTIVITY

Thermal decomposition

No decomposition when used as directed.

Hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (eg. peroxides), reducing substances, and /or heavy metal ions.

Hazardous decomposition products

None when used as directed.

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TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 > 2.000 mg/kg (rat)

Irritant effect on skin : non-irritant

Irritant effect on eyes : non-irritant

Sensitisation : non-sensitising

ECOLOGICAL INFORMATION

Aquatic toxicity

This product is not expected to be harmful to aquatic life or the soil environment based on component information.

Remarks

Avoid contaminating waterways. Do not allow material to enter drains or waterways.

DISPOSAL CONSIDERATIONS

Product

Dispose of in accordance with local authority regulations

Uncleaned packaging

Consider recycling.

TRANSPORT INFORMATION

Land : ADG Not restricted

Land : NZS5433 Not restricted

Air : IATA Not restricted

Sea : IMDG Not restricted

REGULATORY INFORMATION

HSNO Approval Number : NA

Tracking : Not required

Approved Handler : Not required

Poison Schedule (SUSDP) : None allocated

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OTHER INFORMATION

- Any other intended applications should be discussed with the manufacturer.
- If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: war99@singnet.com.sg
- The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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