

FORTIS POLYURETHANE ADHESION PROMOTER**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name Fortis Polyurethane Adhesion Promoter
Product Code -
Other Names -
Product Use Adhesion promoter – primer coat for glass and concrete
Supplier Name Fortis Adhesives and Coatings
Address 177-179 Ordish Road
Dandenong South VIC 3175
Telephone Number 03 9706 5448
Emergency Telephone 0425 883 566

2. HAZARDS IDENTIFICATION**HAZARDOUS SUBSTANCE. DANGEROUS GOODS.**

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards F - Flammable
Xi - Irritant

Risk Phrases R11 - Highly flammable.
R36 - Irritating to eyes.
R67 - Vapours may cause drowsiness and dizziness.

Safety Phrases S2 - Keep out of reach of children.
S7 - Keep container tightly closed.
S16 - Keep away from sources of ignition - No smoking.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S38 - In case of insufficient ventilation, wear suitable respiratory equipment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Isopropyl alcohol	67-63-0	>60%
Gamma-methacryloxypropyltrimethoxysilane	2530-85-0	<2%
Gamma-aminopropyltriethoxysilane	919-30-2	<1%

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Ingestion If swallowed do NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person. Seek

Skin	immediate medical attention. If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly with soap and plenty of water. Seek medical attention if symptoms occur.
Eyes	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Carbon dioxide, dry chemical and foam.
Hazardous Combustion Products	Oxides of carbon.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Highly flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to a source of ignition and flash back. Avoid all ignition sources. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray.
Hazchem Code	3[Y]E

6. ACCIDENTAL RELEASE MEASURES

Spills	In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection and impervious elbow-length gloves. Evacuate general area and deny access to unnecessary and unprotected personnel. Extinguish or remove all sources of ignition. Ventilate area of leak or spill. Stop leak if safe to do so and contain spill. Absorb with an inert material (vermiculite, dry sand, earth). Use non-sparking tools to collect the material and place into clearly labeled containers for subsequent disposal.
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7. HANDLING AND STORAGE

Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Vapour may travel a considerable distance to a source of ignition and flash back.
Storage	Store in a cool, dry, well-ventilated area away from sources of ignition, heat, naked flames, sparks and oxidising agents. Keep

containers tightly closed when not in use. Store away from oxidizing agents. Protected against physical damage. Inspect regularly for damage or leaks. Take precautionary measures against static discharges. Earth or bond all equipment. See Australian Standards AS1940 - The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards Safe Work Australia)	Isopropyl alcohol: TWA: 400 ppm /983 mg/m ³ STEL: 500 ppm / 1230 mg/m ³
Engineering Controls	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator or organic vapour cartridge mask should be used. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Safety glasses with top and side shields. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Impervious gloves and suitable protective work wear. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
Hygienic Practices	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	No information available
Solubility in Water	Slight
Boiling Point	82°C
Evaporation Rate (Air=1)	No information available
Vapour Pressure (kPa)	No information available
Vapour Density	No information available
Specific Gravity (g/cm³)	~ 0.8
Flash Point	12° C
Flammable Limit – Lower	2.3%
Flammable Limit – Upper	12.7%
Ignition Temperature	No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Oxides of carbon.

Products

Hazardous Polymerization Will not occur
Conditions to Avoid Heat, open flames or other sources of ignition.

11. TOXICOLOGICAL INFORMATION**Toxicity****Isopropyl alcohol:**

Oral LD₅₀ (rat) = 5045 mg/kg
Oral LD₅₀ (mouse) = 3600 mg/kg
Oral TD_{Lo} (man) = 223 mg/kg
Dermal LD₅₀ (rabbit) = 12800 mg/kg
May be harmful by inhalation, ingestion or skin absorption. May act as an irritant.

Gamma-aminopropyltriethoxysilane:

Oral LD₅₀ (rat) = 1750 mg/kg
Oral LD₅₀ (mouse) = 4000 mg/kg
Intraperitoneal LD₅₀(mouse) = 260 mg/kg
Dermal LD₅₀ (rabbit) = 4 mg/kg
Irritation data:
Skin – rabbit – 5 mg/24h – severe
Harmful by ingestion, inhalation and if absorbed through skin.
Corrosive - causes burns. Very destructive of mucous membranes.

**Routes of Exposure
Acute Health Effects**

Inhalation, ingestion, eye and skin
Inhalation: May cause respiratory irritation.
Ingestion: No effects anticipated. Practically non toxic.
Eye: May cause eye irritation.
Skin: May cause skin irritation.

Chronic Health Effects

Prolonged or repeated skin contact may result in skin irritation. Low viscosity materials may cause skin de-fatting, resulting in possible irritation and dermatitis.
Prolonged exposure may cause respiratory irritation, dizziness, nausea and loss of consciousness.

**Existing Conditions
Aggravated by Exposure
Carcinogenicity**

No information available.
This product does not contain any chemical listed by IARC.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Aquatic Organisms:**

LC₅₀ 96hr (Pimephales promelas) = 11130mg/L
LC₅₀ 24hr (Daphnia magna) = 9500 mg/L
Avoid contaminating soil and waterways.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS**Disposal methods and
containers
Special precautions for**

Dispose according to applicable local and state government regulations.
Please consult your state Land Waste Management Authority for

landfill or incineration more information

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number	1268
Proper Shipping Name	PAINT RELATED MATERIAL
Dangerous Goods Class	3
Hazchem Code	3[Y]E
Packing Group	II
Special Precautions	Not applicable

15. REGULATORY INFORMATION

Isopropyl alcohol, gamma-methacryloxypropyltrimethoxysilane and gamma-aminopropyltriethoxysilane are listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS	Rev 1.1 (17/07/2012)
Prepared by	MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used	IARC: International Agency for Research on Cancer NTP: National Toxicology Program (U.S.) OSHA: Occupational Safety and Health Administration (U.S.) STEL: Short term exposure limit TWA: Time weighted average

Emergency Contacts

Fortis Adhesives and Coatings	03 9706 5448
Fortis Adhesives and Coatings – Emergency Number	0425 883 566
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document “National Code of Practice for the Preparation of Material Safety Data Sheets” 2nd Edition [NOHSC:2011(2003)]