

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Crystalbond 509.
Catalogue Number: I509.
Other Names: Phthalic anhydride/Ethanediol [Ethylene glycol] Adhesive mixture.
Recommended Use: Temporary adhesive.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of Hazardous Substances Information System [HSIS Worksafe Australia].
Hazardous and/or Dangerous Nature: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Risk Phrases: R22 Harmful if swallowed.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious eye damage.
R42/43 May cause sensitisation by inhalation and skin contact.
Safety Phrases: S2 Keep out of reach of children.
S23 Do not breathe vapour.
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.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

Refer to Section 15 for Poisons Schedule.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substance (Proportion 100%):

Chemical Identity: Crystalbond 509.
Common Name(s): Phthalic anhydride/Ethanediol [Ethylene glycol] Adhesive mixture.
CAS Number: Mixture – see below.

Mixture Substance:

Ingredients	Cas Number(s)	Proportion (%)
Phthalic anhydride	85-44-9	0-100
Ethanediol [Ethylene glycol]	107-21-1	0-100

SECTION 4 - FIRST AID MEASURES

Ingestion: If swallowed, seek medical advice immediately and show this container or label.
Inhalation: Seek medical attention if irritation occurs.
Eye Contact: Flush with plenty of water; if irritation persists seek immediate medical attention.
Skin Contact: Treat for thermal burn, get immediate medical attention.
First Aid Facilities: Eyebath/eyewash.
Medical Attention & Special Treatment: Treat symptomatically and supportively.
Additional Information: Not further information available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use foam, carbon dioxide and dry powder to extinguish. Do not use water.
Hazards from Combustion Products: Produces carbon monoxide and carbon dioxide when heated.
Precautions for Fire Fighters:

Wear appropriate protective equipment for the surrounding fire.

Hazchem Code: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Evacuate area of unnecessary personnel. Remove/turn off sources of ignition.

Containment & Clean up:

Wear appropriate protective equipment, refer to Section 8. Provide adequate ventilation and sweep up and place into a sealable container for disposal.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Use good personal work hygiene, wash after handling. Handle in a well-ventilated area. Avoid excessive heat, sparks and open flames. Wear appropriate protective equipment, refer to Section 8.

Precautions for Safe Storage:

Store in a cool dry area, away from sources of ignition.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Phthalic anhydride, Cas: 85-44-9:

TWA 1ppm

TWA 6.1mg/m³

Ethanediol [Ethylene glycol], Cas: 107-21-1:

Vapour:

TWA 20ppm

TWA 52mg/m³

STEL 40ppm

STEL 104mg/m³

Particulate:

TWA 10mg/m³

Biological Limit Values:

No biological limit allocated.

Engineering Controls:

Use in a well ventilated area.

Personal Protective Equipment:

Use NIOSH approved mist respirator where spray occurs or exposure levels are above standard.

Rubber gloves and chemical goggles are recommended.

Wear protective clothing – long enough to prevent skin contact.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear or clear amber coloured solid.
Odour:	Odourless.
pH:	Not available.
Vapour pressure (mm of Hg at °C):	1.05
Vapour density:	(Air = 1) 1.0
Boiling point/range (°C):	149°C – starts to decompose.
Freezing/melting point (°C):	Melting point – 108°C (Butyl Acetate = 1)
Solubility:	Not available.
Specific gravity or density:	1.35
Flash Point:	263°C – Closed Cup.
Flammable (explosive) limits:	Not available.
Ignition temperature:	Not available.
Additional Information:	Not further information is available.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Excessive heat, sparks or open flames..
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide.

Hazardous Reactions: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Can cause severe thermal burns when heated substance contacts with skin.

Ingestion:

Unknown.

Inhalation:

Unknown.

Eye Contact:

Unknown,

Skin Contact:

If in molten state and exposed to skin – will cause severe thermal burn.

Human/Animal data: Not available.

Carcinogenic Category: No data available to classify Carcinogenic Category.

Other Carcinogenic Not available.

Information:

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Mobility: Not available.

Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of in accordance with local, state and federal regulations.

Special Precautions/Additional Informational:

Not available.

SECTION 14 - TRANSPORT INFORMATION

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Class and Subsidiary risk: Not regulated.

Packing Group: Not regulated.

Special Precautions for User: Not available.

Hazchem Code: Not available.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: S5

Ethanediol [Ethylene Glycol] is an S5 classed poison.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: October 10

Comments:

List of Publications referenced when creating this MSDS;

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)
- IATA Dangerous Goods Regulations
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Poison Standard 2010 (Australian Government Department of Health and Ageing)

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this

information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of MSDS ...