



Material Safety Data Sheet

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Issue date: June 2010

AD-6 Part A

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: AD-6 Part A

Synonym: None

Use: Polyurethane Primer

Era Polymers Pty Ltd
25-27 Green Street
East Botany NSW 2019
Australia
Ph: +61 2 9666 3788
Fax: +61 2 9666 4805

Emergency Advice All Hours:
Technical Manager +61 2 9666 3788

2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO NOHSC CRITERIA

Hazard Category: Toxic (T), Corrosive (C)

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOOD

RISK PHRASES

- R11 Highly flammable.
- R20 Harmful by inhalation.
- R24/25 Toxic in contact with skin and if swallowed.
- R34 Causes burns.
- R40/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
- R43 May cause sensitisation by skin contact.
- R45 May cause cancer.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

- S7/9 Keep container tightly closed and in a well ventilated place.
- 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 contact a doctor or Poisons Information Centre.
- S28 After contact with skin, wash immediately with plenty of water and soap.
- S36/37 Wear suitable protective clothing and gloves.
- S45 In case of accident or if you feel unwell, contact a doctor immediately and show this container or label.
- S53 Avoid exposure - obtain special instructions before use.
- S60 This material and/or its container must be disposed of as hazardous waste.
- S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Poison Schedule: S6 [Aust]

This material is a Scheduled **S6** Poison and must be stored, handled and used according to the appropriate regulations.

Warning Statement:

Avoid breathing vapours. Avoid skin and eye contact. Skin contact may cause allergic reaction or burns. Eye contact may cause burns. Avoid release in the aquatic environment.



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3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
1-METHOXY-2-PROPYL ACETATE	10 to 30%	108-65-6
ETHANOL	10 to 30%	64-17-5
ZINC CHROMATE PIGMENT	10 to 30%	11103-86-9
sec-BUTANOL [2-BUTANOL] (Below Cut-off)	10 to 30%	78-92-2
METHANOL [METHYL ALCOHOL]	1 to 10%	67-56-1
PHENOL	1 to 10%	108-95-2

All other ingredients not hazardous according to NOHSC Criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, DO NOT induce vomiting. Give victim one or two glasses of water or milk. Seek urgent medical assistance.

Eye:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open. Get prompt medical attention.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap. Flush skin with large amounts of water. Get medical attention if symptoms occur.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. Get medical attention.

First Aid Facilities:

Eye wash fountain, safety shower and normal washroom facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, foam or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. Water spray may be ineffective. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapour. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

HAZCHEM CODE: 3[Y]E [Aust]

FLAMMABILITY

Highly flammable liquid. Avoid all sources of ignition, heat and naked flames. Vapours may travel a considerable distance to source of ignition and ignite.



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6. ACCIDENTAL RELEASE MEASURES

Keep non-essential personnel a safe distance away from the spill area. Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapours. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact. Before attempting clean-up, refer to hazard caution information in other sections of the MSDS.

7. HANDLING AND STORAGE

HANDLING:

Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapour or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Cannot be made non-poisonous. Use with adequate ventilation. Because empty containers may retain product residue and flammable vapours, keep away from heat, sparks and flame; do not cut, puncture or weld on or near the empty container. Do not smoke where this product is used or stored.

STORAGE:

Do not store or use near heat, sparks, or open flame. Store only in well-ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use. Refer to AS1940 – “The Storage and Handling of Flammable and Combustible Liquids” for specific storage requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

* *1-METHOXY-2-PROPYL ACETATE*

(ACGIH)

[TWA] 100 ppm

* *ETHANOL*

(Worksafe Australia)

[TWA] 1,000 ppm 1,880 mg/m³

References: H

(ACGIH)

[TWA] 1,000 ppm 1,880 mg/m³

Carcinogen Category: A4

* *ZINC CHROMATE PIGMENT*

(Worksafe Australia)

[TWA] 0.01 mg/m³

Carcinogen Category: 1

References: H

(ACGIH)

[TWA] 0.01 mg/m³

Carcinogen Category: A1

* *sec-BUTANOL [2-BUTANOL] (Below Cut-off)*

(Worksafe Australia)

[TWA] 100 ppm 303 mg/m³

References: H

(ACGIH)

[TWA] 100 ppm 303 mg/m³



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* *METHANOL [METHYL ALCOHOL]*

(Worksafe Australia)

[TWA] 200 ppm 262 mg/m³

[STEL] 250 ppm 328 mg/m³

Notices: Sk

References: H

(ACGIH)

[TWA] 200 ppm 262 mg/m³

[STEL] 250 ppm 328 mg/m³

Notices: Sk

* *PHENOL*

(Worksafe Australia)

[TWA] 1 ppm 4 mg/m³

Notices: Sk

References: A

(ACGIH)

[TWA] 5 ppm 19 mg/m³

Carcinogen Category: A4

Engineering Controls

Highly flammable liquid. Maintain adequate general and local exhaust ventilation at all times. Solvent vapours are heavier than air - prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. Elevated temperature or mechanical action may form vapours, mists or fumes, which may require local exhaust ventilation systems.

Personal Protection Equipment

CLOTHING: Use disposable or impervious clothing to prevent skin contact

GLOVES: Use neoprene, nitrile or rubber gloves to prevent skin contact.

EYES: Use safety eyewear including safety glasses with side shields, chemical goggles or face shield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases exceed the exposure standards then the use of a half-face respirator with organic vapour cartridge is recommended. For high concentrations use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus, complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Hygienic Practices:

Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red liquid, solvent odour
Boiling Point Melting Point:	Boiling range = 64 to 200°C
Vapour Pressure:	Not determined
Specific Gravity:	1.04
Flash Point:	19°C (closed cup)
Flammability Limits:	LEL = 1.3%, UEL = 36.5% (% by volume)
Solubility in Water:	Insoluble



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Other Properties

% Volatiles (by weight) = 65.5%

% Volatiles (by volume) = 77.1%

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of storage and use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits carbon monoxide and carbon dioxide when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions.

INCOMPATIBILITIES:

Strong acids, bases and strong oxidisers.

CONDITIONS TO AVOID:

Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS:

Swallowed:

Toxic if swallowed.

Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur. Cannot be made non-poisonous.

Eye:

Will cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, corneal damage and blindness will occur.

Skin:

Toxic by skin contact.

Will cause burns to the skin, with effects including; Redness, blistering, localised pain and dermatitis.

Inhaled:

Toxic if inhaled.

Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, dryness of throat, coughing, loss of co-ordination, tightness of chest, chest pains, shortness of breath, respiratory paralysis and or failure.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Prolonged or repeated exposure may lead to cancer.

Prolonged or repeated exposure may lead to irreversible damage to health.

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

Prolonged or repeated contact with this substance will cause sensitisation by skin contact.

This material contains methanol, ingestion of methanol may cause permanent eye damage or blindness.

May cause liver or kidney damage.

Repeated or prolonged exposure may result in permanent central nervous system damage.

May cause long-term lung damage.



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Toxicological Data:

NON-LETHAL IRREVERSIBLE EFFECTS AFTER A SINGLE EXPOSURE

This substance is capable of causing serious irreversible effects after a single exposure and is determined to be a hazardous substance. Such irreversible effects can include central nervous system effects, kidney necrosis liver lesions, anaemia or paralysis.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

There is no information available for this product.

Mobility:

There is no information available for this product.

Persistence / Degradability:

There is no information available for this product.

Chemical Fate Information:

This product is very toxic to aquatic organisms. This product may cause long-term adverse effects in the aquatic environment. This product may cause long-term adverse effects in the environment

13. DISPOSAL CONSIDERATIONS

Disposal should be done in accordance with federal, state and local environmental control regulations. Use a licensed hazardous waste transporter and disposal facility.

14. TRANSPORT INFORMATION

Road Transport

UN Number: 1263

Proper Shipping Name: PAINT

Dangerous Goods Class: 3

Packing Group: II

Label: Toxic (T), Corrosive (C)

Air Transport

UN Number: 1263

Proper Shipping Name: PAINT

Dangerous Goods Class: 3

Packing Group: II

Label: Toxic (T), Corrosive (C)

Sea Transport

UN Number: 1263

Proper Shipping Name: PAINT

Dangerous Goods Class: 3

Packing Group: II

Label: Toxic (T), Corrosive (C)

15. REGULATORY INFORMATION

Poison Schedule: S6 [Aust]

Inventory Status:

Inventory Status

Australia (AICS) Y

Y = all ingredients are on the inventory.



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16. OTHER INFORMATION

Date of Preparation:

Issue date: 28 June 2010

Supersedes: February 2010

Reasons for Update:

Periodic review

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]

AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EU - European Union

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

Removal of the heading of *Poison Schedule [Aust]*, in section 3 and 15 of this Material Safety Data Sheet (MSDS) makes this a valid health and safety document in other international jurisdictions/countries. For full compliance please contact your Federal, State or Local regulators for further information.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

END OF MSDS