



Rhino Linings®

PREMIUM PROTECTION

RHINOCHEM 2170 B-SIDE

Chemwatch Material Safety Data Sheet
Issue Date: 2-Dec-2008
C9317EC

CHEMWATCH 4944-76
Version No:5
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Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

RHINOCHEM 2170 B-SIDE

SYNONYMS

"RhinoChem 2170 - B side, Resin Polyurethane spray coating, curative side Part # HC60062 - 62kg, HC60204 - 204kg"

PRODUCT USE

Component B of a polyurethane lining formulation.
Always use in admixture with component A.

SUPPLIER

Company: Rhino Linings Australasia Pty Ltd
Address:
501- 505 Olsen Avenue
Molendinar
QLD, 4214
AUS
Telephone: +61 7 5585 7000
Fax: +61 7 5539 6399

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE

S5

RISK

- » Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.
- » Cumulative effects may result following exposure*.
- » May produce discomfort of the eyes respiratory tract and skin*.
- » Possible respiratory sensitiser*.

» Possible skin sensitiser*.

* (limited evidence).

SAFETY

- » Do not breathe gas/fumes/vapour/spray.
- » Avoid contact with skin.
- » Wear eye/face protection.
- » In case of contact with eyes rinse with plenty of water and contact Doctor or Poisons Information Centre.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| NAME | CAS RN | % |
|----------------------------------|------------|-----|
| diethyltoluenediamine | 68479-98-1 | <5 |
| carrier nonhazardous proprietary | | >95 |

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Section 4 - FIRST AID MEASURES

SWALLOWED

- » - If swallowed do NOT induce vomiting. Seek medical advice.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

EYE

- » If this product comes in contact with the eyes:
 - Wash out immediately with fresh running water.
 - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
 - If pain persists or recurs seek medical attention.
 - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- » If skin contact occurs:
 - Immediately remove all contaminated clothing, including footwear.
 - Flush skin and hair with running water (and soap if available).
 - Seek medical attention in event of irritation.

INHALED

- » - If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN

- » Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- » - Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

FIRE FIGHTING

- » - Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent area.

FIRE/EXPLOSION HAZARD

- » - The material is not readily combustible under normal conditions.
 - However, it will break down under fire conditions and the organic component may burn.
 - Not considered to be a significant fire risk.
 - Heat may cause expansion or decomposition with violent rupture of containers.
- Other combustion products include:
carbon dioxide (CO₂).
other pyrolysis products typical of burning organic material and amines.

FIRE INCOMPATIBILITY

- » Avoid contamination with strong oxidising agents as ignition may result.

HAZCHEM: None

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

- » Slippery when spilt.
- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.

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Section 6 - ACCIDENTAL RELEASE MEASURES

MAJOR SPILLS

- » Slippery when spilt.
- Minor hazard.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- » - Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

SUITABLE CONTAINER

- » - Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

- » Avoid storage with oxidisers.

STORAGE REQUIREMENTS

- » Store out of direct sunlight.
- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records

- diethyltoluenediamine:

CAS:68479- 98- 1

PERSONAL PROTECTION

RESPIRATOR

Type AK-P Filter of sufficient capacity

EYE

- » - Safety glasses with side shields; or as required,
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

- » Wear chemical protective gloves, eg. PVC.
- Wear safety footwear.

OTHER

- » - Overalls.
- Eyewash unit.

ENGINEERING CONTROLS

- » General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances.
- Refer also to protective measures for the other component used with the product. Read both MSDS before using; store and attach MSDS together.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

White liquid with a slight odour; does not mix with water

PHYSICAL PROPERTIES

Liquid.

Does not mix with water.

Sinks in water.

Molecular Weight: Not applicable
Melting Range (°C): Not available
Solubility in water (g/L): Immiscible
pH (1% solution): Not applicable
Volatile Component (%vol): Not available
Relative Vapour Density (air=1): >1
Lower Explosive Limit (%): Not available
Autoignition Temp (°C): Not available
State: Liquid

Boiling Range (°C): 308
Specific Gravity (water=1): 1.06
pH (as supplied): Not applicable
Vapour Pressure (kPa): Not available
Evaporation Rate: <1 Ether=1
Flash Point (°C): >135 TCC
Upper Explosive Limit (%): Not available
Decomposition Temp (°C): Not available
Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

» - Presence of incompatible materials.

- Presence of heat source.

Product is considered stable under normal handling conditions.

Stable under normal storage conditions.

Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

» May produce discomfort of the eyes, respiratory tract and skin*.

» * (limited evidence).

CHRONIC HEALTH EFFECTS

» Possible respiratory sensitiser*.

» Possible skin sensitiser*.
» Cumulative effects may result following exposure*.

» * (limited evidence).

TOXICITY AND IRRITATION

» Not available. Refer to individual constituents.

DIETHYLTOLUENEDIAMINE:

» unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

TOXICITY

Oral (rat) LD50: 470- 540 mg/kg

Dermal (rabbit) LD50: >700 mg/kg

Inhalation (rats) LD50: >2.45 mg/l [Manufacturer]

» The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

p-Phenylenediamines are oxidised but becomes mutagenic after it is oxidized.

by the liver microsomal enzymes (S9). Pure p-phenylenediamine is non-mutagenic in

IRRITATION

Skin (rabbit): slight

Eye (rabbit): moderate- SEVERE

Section 12 - ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Section 13 - DISPOSAL CONSIDERATIONS

- » - Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Material may be disposed of by controlled burning in an approved incinerator or buried in an approved landfill.
- Prior to disposal in a landfill the material should be mixed with the other component and reacted to render the material inert.

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None (ADG7)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: S5

REGULATIONS

RhinoChem 2170 B-Side (CAS: None):
No regulations applicable

diethyltoluenediamine (CAS: 68479-98-1) is found on the following regulatory lists;

- Australia Hazardous Substances
- Australia Inventory of Chemical Substances (AICS)
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)
- OECD Representative List of High Production Volume (HPV) Chemicals

Section 16 - OTHER INFORMATION

» Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

» The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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