



Material Safety Data Sheet

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Issue date: July 2008

ERACOAT FC2450

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ERACOAT FC2450

Synonym: None

Use: Polyurethane coating

Era Polymers Pty Ltd

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Australia

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2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO EU CRITERIA

Hazard Category: Toxic (T), Irritant (Xi)

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOOD

RISK PHRASES

R10 Flammable

R21 Harmful in contact with skin.

R23 Toxic by inhalation.

R38 Irritating to skin.

R40 Possible risk of irreversible effects

R42/43 May cause sensitisation by inhalation and skin contact.

R50 Very toxic to aquatic organisms.

R53 May cause long term adverse effects in the aquatic environment.

R65 Harmful: May cause lung damage if swallowed.

SAFETY PHRASES

S16 Keep away from sources of ignition - No smoking.

S20 When using, do not eat or drink.

S23 Do not breathe gas/fumes/vapour/spray

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.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

S53 Avoid exposure - obtain special instructions before use.

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 contact with skin, sensitizer, do not breath fumes, flammable, keep away from ignition sources



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3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
TOLUENE DIISOCYANATE [TDI] (Mixture of isomers)	10 to 30 %	26471-62-5
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. [LOW BOILING POINT NAPHTHA UNSPECIFIED]	10 to 30%	64742-95-6
1-METHOXY-2-PROPANOL ACETATE (Below Cutoff)	1 to 10%	108-65-6
XYLENE	10 to 30%	1330-20-7
DIBUTYL TIN DILAURATE (Below Cutoff)	Less than 1%	77-58-7

All other ingredients not hazardous according to EU Criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, DO NOT induce vomiting. Seek urgent medical assistance.

Eye:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room 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 dry chemical, carbon dioxide or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire exposed containers when using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.

HAZCHEM CODE: 3[Y] [Aust]

FLAMMABILITY

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

EMERGENCY ACTION:

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas.

SPILL OR LEAK PROCEDURE:

Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.

SMALL SPILLS:

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools or HEPA vacuum system. Place into labelled drum(s) for later disposal.

LARGE SPILLS:

Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

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:

TOLUENE DIISOCYANATE [TDI] (Mixture of isomers)

(Worksafe Australia)

[TWA]0.02 mg/m³

[STEL]0.07 mg/m³

Notices: Sen

References: A4 (This chemical is not classified as a human carcinogen)

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. [LOW BOILING POINT NAPHTHA UNSPECIFIED]

(Worksafe Australia)

[TWA]50 ppm

1-METHOXY-2-PROPANOL ACETATE (Below Cutoff)

(Worksafe Australia)

[TWA]50 ppm 274 mg/m³

[STEL]100 ppm 548 mg/m³

Notices: Sk

(ACGIH)

[TWA]100 ppm



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XYLENE

(Worksafe Australia)

[TWA]80 ppm 350 mg/m³

[STEL]150 ppm 655 mg/m³

References: A;R

(ACGIH)

[TWA]100 ppm 434 mg/m³

[STEL]150 ppm 651 mg/m³

Carcinogen Category: A4 (This chemical is not classified as a human carcinogen)

Notices: BEI

DIBUTYLTIN DILAURATE (Below Cutoff)

(Worksafe Australia)

[TWA]0.1 mg/m³

[STEL]0.2 mg/m³

(ACGIH)

[TWA]0.1 mg/m³

Carcinogen Category: A4 (This chemical is not classified as a human carcinogen)

Engineering Controls

Flammable liquid. Maintain adequate ventilation at all times. 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: PVC or rubber apron.

GLOVES: PVC or rubber.

EYES: Chemical goggles or faceshield 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 concentration 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Thin clear to yellow liquid solvent odour
Boiling Point Melting Point:	Not determined
Vapour Pressure:	Not determined
Specific Gravity:	Approx 1
Flash Point:	not determined
Flammability Limits:	Not determined
Solubility in Water:	Reacts with water releasing carbon dioxide

Other Properties

Isocyanate content approx 3.6%



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10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use. Will become unstable and led to an explosion if mixed with oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits oxides of carbon when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Strong alkalis, acids, nitrates and oxidizing agents.

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:

Harmful if swallowed.

Vomiting, may cause this product to be aspirated into the lungs, which may lead to chemical pneumonitis.

Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

Harmful by skin contact.

Will cause irritation to the skin, with effects including; Redness, itchiness, and possible dermatitis.

Inhaled:

Toxic if inhaled.

May cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and loss of co-ordination.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Product may also be absorbed through the skin with resultant toxic effects.

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

Prolonged or repeated exposure or deliberately concentrating and inhaling the vapour(s) may result in lung function incapacity or death.

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

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

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.



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16. OTHER INFORMATION

Date of Preparation:

Issue date: 31 July 2008
Supersedes: None

Reasons for Update:

First Issue

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