



Material Safety Data Sheet

Page 1 of 6

Issue date: April 2010

Ethacure 300 LC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Ethacure 300 LC

Synonym: Di-(methylthio)toluene diamine, DMTDA

Use: Polyurethane Curative

Era Polymers Pty Ltd
25-27 Green Street
Banksmeadow NSW 2019
Australia
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Emergency Advice All Hours:
Technical Manager +61 2 9666 3788

2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO NOHSC CRITERIA

Hazard Category: Harmful (Xn), Irritant (Xi)

Hazard Classification: HAZARDOUS SUBSTANCE, NON-DANGEROUS GOOD

RISK PHRASES

R22 Harmful if swallowed.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S24 Avoid contact with skin.

S28 After contact with skin, wash immediately with plenty of water and soap.

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

S46 If swallowed, contact a doctor immediately and show this container or label.

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: S5 [Aust]

This material is a Scheduled **S5** Poison and must be stored, handled and used according to the appropriate regulations.

Warning Statement:

Do not swallow. Avoid skin contact. Skin contact may cause allergic reaction. Avoid release into the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
DI-(METHYLTHIO)TOLUENEDIAMINE [DMTDA]	Greater than 60%	106264-79-3

All other ingredients not hazardous according to NOHSC Criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, induce vomiting immediately by giving two glasses of water to drink and sticking finger down throat. Never give anything by mouth to an unconscious person. Seek medical attention immediately.



Material Safety Data Sheet

Page 2 of 6

Issue date: April 2010

Ethacure 300 LC

Eye:

If material is splashed into eyes, immediately flush with plenty of water for 15 minutes, ensuring eyelids are held open. If irritation persists seek medical attention.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with warm water and soap. Flush skin with water. Seek medical attention if irritation develops or persists.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing. If trained personnel available administer oxygen if breathing is difficult. Seek 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

If safe to do so, move undamaged containers from fire area.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes on heating emitting oxides of carbon, nitrogen and sulphur.

FIRE FIGHTING PROCEDURES: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended to prevent contact with skin and eyes.

EXTINGUISHING MEDIA: Use extinguishing media suitable for surrounding fire situation. Use foam, water spray (fog), CO₂ or dry powder. Use water spray to cool fire-exposed containers and for large fires.

HAZCHEM CODE: None allocated [Aust]

FLAMMABILITY

Combustible liquid - Store in accordance with *AS1940 – The storage and handling of flammable and combustible liquids*.

6. ACCIDENTAL RELEASE MEASURES

Do not allow into drains or waterways. Do not allow to contaminate soil. Contain spill with dikes or absorbents to prevent entry into drains, sewers or waterways. Take up mechanically or with absorbent material. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil. Dispose of empty containers in accordance with federal, state and local laws.

7. HANDLING AND STORAGE

Wear gloves, long-sleeved shirt, and eye protection. Do not eat, drink or smoke in the workplace. Keep containers tightly closed and store in a cool, dry, well-ventilated area. Protect from moisture. Purge with nitrogen and close container when not in use.



Material Safety Data Sheet

Page 3 of 6

Issue date: April 2010

Ethacure 300 LC

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards have been assigned by [NOHSC] for this product or any of the components:

DI-(METHYLTHIO)TOLUENEDIAMINE [DMTDA]

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

Engineering Controls

Use local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations (Refer to AS-1668). If exhaust ventilation is not available or inadequate, use approved respirator to Australian Standards (Refer to AS/NZS 1715/1716). Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower.

Personal Protection Equipment

CLOTHING: Wear suitable protective clothing to prevent skin contact.

GLOVES: Wear impervious gloves to prevent skin contact - PVC or natural rubber.

EYES: Wear chemical splash goggles (Australian Standard AS-1337) or approved equivalent to protect eyes. Eye protection must be compatible with respiratory protection.

RESPIRATORY PROTECTION: Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a respirator for organic vapours with (disposable) or with replaceable filters 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:	Pale yellow to amber coloured clear liquid
Boiling Point Melting Point:	Decomposes at 175°C
Vapour Pressure:	0.89mmHg @ 146°C
Specific Gravity:	Approx. 1.2
Flash Point:	176°C (PMCC)
Flammability Limits:	Not determined
Solubility in Water:	< 1%

Other Properties

None determined.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits toxic fumes including oxides of carbon, nitrogen and sulphur when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Strong acids and oxidizing agents.

CONDITIONS TO AVOID:

Heat, flames, ignition sources and incompatibles.



Material Safety Data Sheet

Page 4 of 6

Issue date: April 2010

Ethacure 300 LC

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.

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

Not expected to be an eye irritant, however, may cause irritation to the eyes, with effects including: tearing and stinging.

Skin:

Will cause irritation to the skin, with effects including: redness, itchiness, and possible dermatitis.

Inhaled:

Not expected to be a route of exposure due to low volatility of DMTDA at room temperature, however, may cause irritation to the nose, throat and respiratory system.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

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

Toxicological Data:

ACUTE DATA:

LD50 (oral, rat) = 1515 mg/kg

LD50 (dermal, rabbit) > 2000 mg/kg

CHRONIC EFFECTS OF OVEREXPOSURE:

Rats given Di-(methylthio)toluenediamine (DMTDA) in the diet for up to 90 days showed increased liver metabolic activity. There were kidney effects observed that were unique to male rats. These effects were similar to changes that have been observed in male rats given hydrocarbons. These effects resolved in animals allowed 30 days recovery. Rats treated for 24 months did not have microscopic alterations in any tissues compared to the control animals. Tumours seen in control and treated animals were usual for age and strain of rats.

GENETIC TEST DATA:

Ames Salmonella/Microsome: dose response increase with S-9

CHO/HGPRT: no activity

In Vitro Cytogenetics: increase in aberrations with and without S-9 at toxic levels

Unscheduled DNA Synthesis: no activity

In Vitro Cell Transformation: no activity

12. ECOLOGICAL INFORMATION

Ecotoxicity:

There is no information available for this substance.

Mobility:

There is no information available for this substance.

Persistence / Degradability:

There is no information available for this substance.

Chemical Fate Information:

Environmentally hazardous substance. Do not allow into drains or waterways. Do not allow to contaminate soil.



Material Safety Data Sheet

Page 5 of 6

Issue date: April 2010

Ethacure 300 LC

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all relevant Local, State and Federal regulations. Dispose of material through a licensed waste contractor. Any processing, use, or contamination of this product may change the requirements for disposal. It is the responsibility of the generator of the waste to properly classify, transport and dispose of the waste.

14. TRANSPORT INFORMATION

Road Transport

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED

Dangerous Goods Class: None allocated

Packing Group: None allocated

Label: Harmful (Xn), Irritant (Xi)

Air Transport

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED

Dangerous Goods Class: None allocated

Packing Group: None allocated

Label: Harmful (Xn), Irritant (Xi)

Sea Transport

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED

Dangerous Goods Class: None allocated

Packing Group: None allocated

Label: Harmful (Xn), Irritant (Xi)

15. REGULATORY INFORMATION

Poison Schedule: S5 [Aust]

Inventory Status:

<i>Inventory</i>	<i>Status</i>
Australia (AICS)	Y

Y = all ingredients are on the inventory.

16. OTHER INFORMATION

Date of Preparation:

Issue date: 1 April 2010

Supersedes: November 2005

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]



Material Safety Data Sheet

Page 6 of 6

Issue date: April 2010

Ethacure 300 LC

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