

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product (material) Name:** DMAE  
**Other Names:** N,N-Dimethylethanolamine, 2-Dimethylethanolamine.  
**Recommended Use:** Accelerator for epoxides.

**Supplier Name:** ProSciTech  
**Postal Address:** PO Box 111, Thuringowa Central Qld. 4817 Australia  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444  
**Fax Number:** (07) 4773 2244  
**Emergency Contact:** (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC.  
**Risk Phrases:**  
**Safety Phrases:**

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**SUBSTANCE:**  
**Chemical Identity:** DMAE  
**Common Name(s):** N,N-Dimethylethanolamine, 2-Dimethylethanolamine.  
**CAS Number(s):** 108-01-0

### MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
DMAE	108-01-0	>99.5

## SECTION 4 - FIRST AID MEASURES

**Swallowed:** Wash out mouth with water. DO NOT induce vomiting and never give anything to an unconscious person. Seek immediate medical attention.  
**Eye:** Flush eyes with plenty of water for at least 15 minutes, separating the eyelids occasionally. Seek medical attention.  
**Skin:** Flush skin with plenty of water for at least 15 minutes, Remove any contaminated clothing and shoes, wash clothes before reuse and throw away shoes. Seek medical attention.  
**Inhaled:** If inhaled, move person to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Seek immediate medical attention.  
**First Aid Facilities:** Safety shower, eyebath.  
**Medical Attention & Special Treatment:**

ADDITIONAL INFORMATION:

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical powder, or appropriate foam.  
**Hazards from Combustion Products:** Combustible liquid. Emits toxic fumes under fire conditions.  
**Precautions for Fire Fighters:** Wear self contained breathing apparatus and protective clothing to prevent skin/eye contact.  
**Hazchem Code:** 2RE

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures:</b>	Evacuate area and shut off all sources of ignition.
<b>Containment and clean up:</b>	Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Cover the material with dry lime or soda ash, pick up, place in a sealable container and keep for waste disposal. Ventilate area and wash spill site after material pickup is complete.

**SECTION 7 - HANDLING & STORAGE**

<b>Precautions for Safe Handling:</b>	Do not breathe vapour, get in eyes, on skin or clothing. Avoid prolonged or repeated exposure. Wash contaminated clothes before re-using, throw away contaminated shoes. Wash thoroughly after handling.
<b>Conditions for Safe Storage:</b>	Keep container tightly sealed away from heat and open flame. Store in a cool dry place.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>National Exposure Standards:</b>	STEL, 22mg/m <sup>3</sup> , 6ppm.
<b>Biological Limit Values:</b>	No biological limit allocated.
<b>Engineering Controls:</b>	Use only under a chemical fume hood.
<b>Personal Protective Equipment:</b>	If necessary use an approved respirator and face shield. Wear chemical resistant gloves, safety goggles and protective clothing.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

<b>Appearance:</b>	Faintly yellow, clear liquid.
<b>Odour:</b>	Fish like.
<b>pH:</b>	10.5 - 11, 20°C concentration: 100g/L.
<b>Vapour pressure:</b>	6.12 mmHg at 20°C.
<b>Vapour density:</b>	3.1 g/L.
<b>Boiling point/range:</b>	134 - 136°C.
<b>Freezing/melting point:</b>	MP: -70°C.
<b>Solubility:</b>	Soluble.
<b>Specific gravity or density:</b>	0.886g/cm <sup>3</sup> .
<b>Flash Point:</b>	39°C.
<b>Flammable (explosive) limits:</b>	Lower: 1.4% Upper: 12.2%.
<b>Ignition temperature:</b>	245°C.
<b>Additional Information:</b>	

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	
<b>Incompatible Materials:</b>	Oxidising agents, copper, copper alloys, zinc, galvanised iron and acid.
<b>Hazardous Decomposition Products:</b>	Carbon monoxide, carbon dioxide and nitrogen oxide.
<b>Hazardous Reactions:</b>	

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Acute and chronic health effects:</b>	LD50 Oral rat 2000mg/kg. LC50 Inhalation rat 1641ppm 4hrs, irritation to sense organs and special senses. LD50 Skin rabbit 1370ul/kg, severe irritation occurred. LD50 Eyes rabbit 0.005ml, severe irritation to eyes.
<b>Possible routes of exposure:</b>	Skin/eye contact, inhalation, ingestion.
<b>Range of effects following exposure:</b>	Causes irritation to skin/eyes, can cause skin and eye burns. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi. Symptoms of exposure may include; burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
<b>Dose likely to cause injury:</b>	
<b>Delayed effects:</b>	
<b>Relevant negative data:</b>	

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** LC50 Fish 96hrs, >100-220mg/L. EC50 Daphnia 48hrs, 98.37mg/L.  
EC50 Algae 72hrs, 35mg/L. LC50 Bacteria 17hrs, >8000mg/L.  
Elimination rate of >60%.

**Persistence and degradability:**

**Mobility:**

**Additional Information:**

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and Local regulations and laws.

**Special Precautions:**

**SECTION 14 - TRANSPORT INFORMATION**

**UN Number:** UN2920  
**UN Proper Shipping Name:** Corrosive liquid, flammable, n.o.s.  
**Class and Subsidiary risk:** 8 / 3  
**Packing Group:** II  
**Special Precautions for User:**  
**Hazchem Code:** 2RE

**SECTION 15 - REGULATORY INFORMATION**

**Poison Schedule Number:** None allocated

**SECTION 16 - OTHER INFORMATION**

**Date of preparation of MSDS:** 16 April 2008

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