

Material Safety Data Sheet

Section 1:	Identification of Product & Supplier
Product:	Accelerator (Triethanolamine)
Classification:	Hazardous according to criteria of Worksafe Australia
Uses:	As accelerator in Megapoxy products
Supplier:	Crushing & Mining Equipment Pty Ltd
ABN:	33 009 300 690
Street Address:	Cnr Lee Rd and Macedonia St Naval Base, WA 6165, Australia
Telephone:	61 8 9437 1477
Facsimile:	61 8 9437 1577
Emergency Phone: e mail:	As Above or After Hours 61 2 9484 7958 or 0418 112 515 sales@crushingandmining.com

Section 2:	Hazards Identification
Hazard Category:	Xn Harmful, Xi Irritant
Risk Phrases:	R21/22 Harmful in contact with skin and if swallowed R43 May cause sensitisation by skin contact
D.G. Class:	Not classified as dangerous goods
Subsidiary Risk:	Nil
Poison Schedule:	S 5
	This product is a Schedule Poison S 5 and must be stored, maintained and used in accordance with the relevant regulation.

Section 3:	Composition & Information on ingredients									
Ingredients:	<table><thead><tr><th>Name</th><th>Cas No.</th><th>Proportion</th></tr></thead><tbody><tr><td>Triethanolamine</td><td>102-71-6</td><td>V.High</td></tr><tr><td>Diethanolamine</td><td>111-42-2</td><td>Med</td></tr></tbody></table>	Name	Cas No.	Proportion	Triethanolamine	102-71-6	V.High	Diethanolamine	111-42-2	Med
Name	Cas No.	Proportion								
Triethanolamine	102-71-6	V.High								
Diethanolamine	111-42-2	Med								
	V.High >60, High 30 - 60, Med 10 - 29, Low 1 - 9, V.Low <1 All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS) and National Registration Authority (NRA) approved active constituents.									

Section 4:	First Aid Measures
	Poison Information Centres in each State capital can provide additional

assistance for scheduled poisons. (Phone Australia 131 126)

Accelerator (TEA)

Ingestion: If swallowed do not induce vomiting. Rinse mouth with water, give glass water and seek medical attention.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin contact: Remove contaminated clothing and footwear. Wash skin thoroughly with water. If swelling, redness, blistering or irritation occurs seek medical attention.

Inhalation: Remove victim from exposure to fresh air. If breathing difficulty, apply artificial respiration and seek medical attention.

Note to Physician: Treat the patient symptomatically.

Section 5:	Fire Fighting Measures
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Extinguishing media: Water, Foam, Dry chemical powder, Carbon dioxide.

Specific Hazards: Combustible liquid. Decomposes on heating emitting toxic fumes including oxides of nitrogen.

Fire Fighters: Wear positive pressure, self-contained breathing apparatus and full protective clothing.

Section 6:	Accidental Release Measures
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Small Spills: Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, so vermiculite or any other inert material. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled container for disposal as per local council statutory codes.

Large Spills: Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, so vermiculite or any other inert material. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled container for disposal as per local council statutory codes. If contamination of crop waterways, drains or sewerage has occurred, advise Emergency Service State Department of Agriculture.

Section 7:	Handling and Storage
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Storage: Store in the closed, original container in a cool ventilated area. Keep containers tightly closed when not in use. Keep away from explosives, fire oxidising agents and organic peroxides. This product is a Scheduled Po

S5 and must be stored, maintained and used in accordance with the relevant regulations.

Section 8:	Exposure Controls & Personal Protection
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Accelerator (TEA)

Exposure Limits: No value assigned for this specific product by the National Occupational Safety Commission (Worksafe Australia). However, supplier recommend Hygiene Standard as under;

TWA STEL Carcinogen Notices

Material	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
Triethanolamine	N/E*	5	N/E*	N/E*
Aliphatic glycidyl ether	3	13	N/E*	N/E*

N/E* - No Exposure Standard has been established for this product

Eng. Controls: Special ventilation is not normally required due to the low volatility of the product at normal temperature. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standards or where no exposure standard is allocated, as low as reasonably practicable.

Personal Protection: Use overalls, safety shoes, safety goggles, rubber or chemical resistant gloves and respirator if required.

Manufacturing, Avoid skin and eye contact and the inhalation of vapour. Wear overalls, safety goggles and impervious gloves. Available information suggests that the product

Packaging & made from PVC should be suitable for intermittent contact. However due to variations in glove construction and local conditions, the final assessment should be made by the user. If inhalation risk exists, wear organic vapour respirator meeting requirements of AS/NZS 1715 and 1716. Always wash hands with soap and water before smoking, eating, drinking or using toilet facilities.

Transport: made from PVC should be suitable for intermittent contact. However due to variations in glove construction and local conditions, the final assessment should be made by the user. If inhalation risk exists, wear organic vapour respirator meeting requirements of AS/NZS 1715 and 1716. Always wash hands with soap and water before smoking, eating, drinking or using toilet facilities.

Preparations & use of product: Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale dust or vapours. After each day's use, wash gloves, safety goggles and all the contaminated clothing.

Section 9:	Physical & Chemical Properties
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Appearance : Clear, colourless, viscous, hygroscopic

Solubility : Soluble in water
Specific Gravity : 1.12
Boiling Point : 335 deg. C

Rel.Vapour Density (air=1) : 4.8

Accelerator (TEA)

Melting Range : Not established
Vapour Pressure (20o C) : Less than 1 kPa
Decomposition Temp.(o C) : More than 200 deg. C
Flash Point (o C) : 190 deg. C
Flammability Limits (%) : Not established
Ph : Not applicable
Autoignition Temp. (o C) : Not available
% Volatile by Volume : Nil

(All above values are Typical Values only)

Section 10:

Stability & Reactivity

Stability: The product is stable under normal conditions and use.

Section 11:

Toxicological Information

No adverse health effects are expected if the product is handles in accordance with this Safety Data Sheet and the product label. Symptom that may arise if the product is mishandled are:

Acute Effects: Ingestion: Harmful if swallowed. May cause gastrointestinal discomfort irritation.

Eye: Brief contact may cause mild irritation to eyes.

Skin: Mild irritant and poorly absorbed through the skin. Prolonged repeated contact may cause sever irritation and/or dermatitis

Inhaled: Not hazardous at ambient temperatures. Vapours generated elevated temperatures or when inhaled repeatedly may cause irritation to nose, throat and respiratory tract.

Long Term Effects: Repeated skin contact and inhalation may result in sensitisation in some individuals. May cause allergic reaction, dermatitis or asthma like symptom
Follow good working practice. Avoid ingestion, inhalation, eye and skin contact. Wash hands with soap and water before eating, drinking, smoki or using toilet facilities.

Acute & Chronic Negative in a battery of mutagenicity assays.

Toxicity: No evidence of carcinogenicity was observed in long term studies of rats
 No developmental nor reproductive effects in rat and rabbit.
 Acceptable Daily Intake (ADI) for humans is 0.01 mg/kg/day.

Section 12:	Ecological Information
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Avoid contamination of drains, sewerage, creeks and waterways.
 Not toxic to aquatic organisms

Accelerator (TEA)

Section 13:	Disposal Consideration
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Dispose all empty containers as per State & Council Regulation. Do not dispose near waterways, vegetation and tree roots. Empty containers ar product should not be burned.

Section 14:	Transport Information
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UN. No.	:	Not Allocated
Shipping Name	:	Triethanolamine or TEA
Class	:	Not classified as dangerous goods
Subsidiary Risk	:	Nil
Packaging Group	:	Not Allocated
Hazchem Code	:	Not Allocated
EPG	:	Not Allocated
Segregation	:	Not to be loaded with explosives, ox agents or organic peroxides.

For road, marine and air transport this product is not classified as dange goods within the context of National and International Transport Regulat

Section 15:	Regulatory Information
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The National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC : 1005 (1994)].
 The National Standard for the Storage and Handling of Workplace Dang Goods [NOHSC : 1015 (2001)].

Section 16:	Other information
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Date of Preparation	:	29.05.02
Date of Revision	:	29.05.07
Reasons for Issue	:	New Formate

MSDS's are updated frequently. Please ensure you have the current co

This MSDS summarises at the date of issue our best knowledge of health and safety hazard information of the product, and in particular how to handle and use the product in the workplace. Since Crushing & Mining Equipment cannot anticipate or control the conditions under which the product may be used each user must, prior to usage, review this MSDS in the context to the storage and handling of the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Crushing & Mining

Accelerator (TEA)

Equipment. Our responsibility for the product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Approved By: Frank Taylor



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