



H318 Causes serious eye damage.

Precautionary Statement Codes - Prevention:

P102\* Keep out of reach of children. - This statement applies only where the substance is available to the general public.

P103\* Read label before use. - This statement applies only where the substance is available to the general public.

P104 Read Safety Data Sheet before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement Codes - Response:

P101\* If medical advice is needed, have product container or label at hand. - This statement applies only where the substance is available to the general public.

P310 Immediately call a POISON CENTER or doctor/physician.

INHALATION:

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

INGESTION:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

SKIN:

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment.

P363 Wash contaminated clothing before reuse.

EYE:

P101\* If medical advice is needed, have product container or label at hand. - This statement applies only where the substance is available to the general public.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary Statement Codes - Storage:

None.

Precautionary Statement Codes - Disposal:

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

**Risk Phrase(s)** R22 Harmful if swallowed.  
R43 May cause sensitization by skin contact.  
R36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Phrase (s)** S23 Do not breathe gas/fumes/vapour/spray  
S20/21 When using, do not eat, drink or smoke.  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	2-Butoxyethanol	111-76-2	0-10 %
	Monoethanolamine	141-43-5	0-<10 %
	1,3,5-Triazine- 1,3,5(2H,4H,6H)- triethanol	4719-04-4	0-10 %
	Other ingredients determined not to be hazardous.		Balance

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#### 4. FIRST AID MEASURES

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<b>Inhalation</b>	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.
<b>Ingestion</b>	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
<b>Skin</b>	If skin or hair contact occurs remove contaminated clothing and wash contaminated skin and hair with plenty of soap and running water. Wash contaminated clothing before re-use. If irritation occurs seek medical attention.
<b>Eye</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
<b>First Aid Facilities</b>	Eye wash fountains and safety showers should be easily accessible.
<b>Advice to Doctor</b>	Treat symptomatically, for advice, contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 POISON / 0800 764 766).

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#### 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Use water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Specific Hazards</b>	This product is non-combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn.
<b>Precautions in</b>	Fire fighters should wear Self-Contained Breathing Apparatus

**connection with Fire** (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for Safe Storage** Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL	STEL	TWA	TWA	FootNote
		(mgm3)	(ppm)	(mgm3)	(ppm)	
	Monoethanolamine	15	6	7.5	3	
	2-Butoxyethanol	242	50	96.9	20	

**Other Exposure Information** No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, exposure standards for ingredients are stated above:

As published by the National Occupational Health and Safety Commission (NOHSC):

As published by the New Zealand Occupational Safety and Health Service (OSH):

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be

exceeded at any time during a normal eight-hour workday.

**Engineering Controls**

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

**Eye Protection**

Safety glasses with side shields or goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

**Body Protection**

Suitable workwear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** Fluorescent green liquid.

**Odour** Not available

**Melting Point** Not available

**Boiling Point** 100°C (for water)

**Solubility in Water** Dispersible

**Specific Gravity** 1.01 (at 25°C)

**pH Value** Not available

**Vapour Pressure** Not available

**Vapour Density (Air=1)** Not available

**Evaporation Rate** >1 (Butyl acetate = 1)

<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Water-containing product. Not flammable but will burn after evaporation of the water content.
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, fumes, smoke.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	For 2-Butoxyethanol: Acute oral LD50 (rat) - 1480 mg/kg. Acute dermal LD50 (rabbit) - 490 mg/kg. Inhalation LC50 (mouse) - 700 ppm/7 hrs. Respiratory irritant (human) - 200 ppm/8 hrs.
<b>Inhalation</b>	Irritating to respiratory system. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Harmful if swallowed. Ingestion of this product will irritate the gastric tract, causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system.
<b>Skin</b>	Irritating to skin. Skin contact will cause redness, itching and swelling. May cause sensitisation by skin contact.
<b>Eye</b>	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
<b>Chronic Effects</b>	Not available.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Not available

**Persistence / Degradability** Not available

**Mobility** Not available

**Environment Protection** Avoid contaminating waterways.

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### 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** Dispose of in accordance with local, state and federal regulations.

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### 14. TRANSPORT INFORMATION

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**Transport Information** Australia:  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:  
Not classified as Dangerous Goods for transport according to the NZS 5433:2007 Transport of Dangerous Goods on Land.

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### 15. REGULATORY INFORMATION

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**Regulatory Information** Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule** S5

**National and or International Regulatory Information** New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Group Standard:  
Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2006  
HSNO Approval Number:  
HSR002491.

**Hazard Category** Harmful, Irritant

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### 16. OTHER INFORMATION

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**Date of**

**preparation or  
last revision  
of MSDS**

MSDS reviewed: May 2009  
MSDS superseded: June 2004

**Contact  
Person/Point**

Mario Moreno  
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Quaker Chemical Australasia Pty. Limited  
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For specialist advice in emergencies: Australia 1800 022 037;  
New Zealand 0800 154 666.

**IMPORTANT ADVICE:**

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Quaker Chemical (Australasia) Pty Limited 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 of how the user intends to handle and use 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 this company.

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End of MSDS

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