



PRICE CHEMICALS PTY LIMITED

ABN 92 002 585 293

10 Pile Road
Somersby NSW 2250
Phone: (02) 4340 0088
Fax: (02) 4340 0322

E-mail: enquiries@pricechemicals.com.au

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Revision Date JULY 2011

Product Name STABILIZER

Other Names ISOCYANURIC ACID; PSEUDOCYANURIC ACID; TRICYANIC ACID;

SYM-TRIAZINETRIOL; s-2,4,6-TRIAZINETRIOL; CYANURIC ACID

Uses Chlorine stabilizer, elastomer curative, whitening agent.

Contact Information

Organisation	Location	Telephone	Ask For
Price Chemicals	10 Pile Rd Somersby NSW 2250 Australia	+61 2 43400088	Technical Officer
Poison Information Centre	Westmead NSW Australia	131126	
Chemcall 24 Hour Emergency Number	Australia New Zealand	1800-127406 0800-243622	
National Poisons Centre	New Zealand	0800-764766	

2. HAZARD IDENTIFICATION

NOT Hazardous according to criteria of NOHSC/ASCC.

Risk Phrases No data available.

Safety Phrases

ERMA New Zealand Approval Code HSR007179

HSNO Hazard Classification 6.4A

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The ERMA Web Site should be consulted for a full list of triggered controls and cited regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportions (%)
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CYANURIC ACID	[108-80-5]	98.0
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4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek medical advice.

Eye If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If irritation occurs, seek medical advice.

Inhaled Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of patient.

Aggravated medical conditions caused by exposure No information available on medical conditions aggravated by exposure to this product.

5. FIRE FIGHTING MEASURES

Extinguishing Media Not combustible, however, if material is involved in a fire use Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder). Keep containers cool with water spray.

Hazards from Combustion Products Non-combustible solid. Avoid generating dust. Incompatible with strong oxidising agents, ethanol and sources of ignition. Decomposes on heating emitting toxic fumes, including those of isocyanic acid gas, oxides of carbon, oxides of nitrogen, and cyanide gas.

Special Protective Precautions and Equipment for Fire Fighters Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Flammability Conditions Product is a non-flammable solid.

Additional Information

Hazchem Code N/A

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Avoid accidents, clean up immediately. Slippery when spilt. Personnel involved in the clean up should wear full protective clothing as listed in section 8. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and Materials for Containment and Clean Up Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Precautions for Safe Handling Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid handling which leads to dust formation. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Use only in a chemical fume hood.

Conditions for Safe Storage (Including Any Incompatibles) Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight, moisture and static discharges. Product is hygroscopic. Store away from foodstuffs. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Type Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust). NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limit Values No information available on biological limit values for this product.

Engineering Controls A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection RESPIRATOR: Where a risk assessment shows air-purifying respirators are appropriate, use a dust mask type N95 or type P1 respirator (AS1715/1716). EYES: Chemical safety goggles (AS1336/1337). HANDS: Wear rubber or PVC gloves (AS2161). CLOTHING: Long-sleeved protective coveralls and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White Powder/Crystals

Formula C₃H₃N₃O₃

Odour Odourless

Vapour Pressure ca. 0 mm Hg (1 atmosphere)

Vapour Density Not applicable.

Boiling Point Not applicable.

Melting Point >300°C deg C

Solubility in Water 2.7g/L
Specific Gravity 2.5 (Water = 1)
Flash Point Not applicable.
pH 4.8 (Saturated solution)
Lower Explosion Limit Not applicable.
Upper Explosion Limit Not applicable.
Ignition Temperature Not applicable.
Specific Heat Value Not applicable.
Particle Size Not applicable.
Volatile Organic Compounds (VOC) Content Not applicable.
Evaporation Rate Not applicable.
Viscosity Not applicable.
Percent Volatile Not applicable.
Octanol/Water partition coefficient Not applicable.
Saturated Vapour Concentration Not applicable.
Additional Characteristics Not applicable.
Flame Propagation/Burning Rate of Solid Materials Not applicable.
Properties of Materials That May Initiate or Contribute to Fire Intensity Not applicable.
Potential for Dust Explosion Not applicable.
Reactions that Release Flammable Gases Not applicable.
Fast of Intensely Burning Characteristics Not applicable.
Non-flammables That Could Contribute Unusual Hazards to a Fire Not applicable.
Release of Invisible Flammable Vapours and Gases N/A
Decomposition Temperature 360°C
Additional Information Molecular Weight: 129.08g/mol

10. STABILITY AND REACTIVITY

Chemical Stability Product is stable under normal conditions of use, storage and temperature. Hygroscopic material.

Conditions to Avoid Avoid excessive heat, direct sunlight, static discharges, generating dust, moisture and high temperatures. Also avoid contact with foodstuffs.

Incompatible Materials Incompatible with strong oxidising agents, ethanol and sources of ignition.

Hazardous Decomposition Products Decomposes on heating emitting toxic fumes, including those of isocyanic acid gas, oxides of carbon, oxides of nitrogen, and cyanide gas.

Hazardous Reactions Hazardous Polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity Data Oral LD50 Rat : 7700mg/Kg Oral LD50 Mouse : 3400mg/Kg Dermal LD50 Rabbit : >5000mg/Kg Eyes : Mild Irritant (Rabbit) Health Effects – Acute

Swallowed No adverse effects expected, however, large amounts may cause nausea and Vomiting.

Eye May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Skin Contact with skin may result in irritation.

Inhaled Breathing in dust may result in respiratory tract irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available on Ecotoxicity for this product.

Persistence and Degardability No information available on persistence and degradability for this product.

Mobility No information available on mobility for this product.

Environmental Fate (Exposure) Avoid contamination of waterways, drains and sewers.

Bioaccumulative Potential No information available on bioaccumulation for this product.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill or Incineration Contact a specialist disposal company or the local waste regulator for advice. This material should be ignited in the presence of sodium carbonate and slaked lime (calcium hydroxide). The substance should be mixed with vermiculite and then with dry caustics, wrapped in paper and burned in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Land Transport (Australia)

Regulation Name ADG

UN Number Not applicable.

Shipping Name CYANURIC ACID

Dangerous Goods Class Not applicable.

Subsidiary Risk Not applicable.

Pack Group Not applicable.

Precaution for User No data available.

Hazchem Code N/A

EPG Not applicable.

Special Provision Not applicable.

Sea Transport (New Zealand)

Regulation Name IMDG

UN Number Not applicable.

Shipping Name CYANURIC ACID

Dangerous Goods Class Not applicable.

Subsidiary Risk Not applicable.
Pack Group Not applicable.
Precaution for User No data available.
Hazchem Code N/A
EPG Not applicable.
Special Provision Not applicable.
Air Transport
Regulation Name IATA
UN Number Not applicable.
Shipping Name CYANURIC ACID
Dangerous Goods Class Not applicable.
Subsidiary Risk Not applicable.
Pack Group Not applicable.
Precaution for User No data available.
Hazchem Code No data available.
EPG No data available.
Special Provision Not applicable.
Land Transport (New Zealand)
Regulation Name NZS5433
UN Number Not applicable.
Shipping Name CYANURIC ACID
Dangerous Goods Class Not applicable.
Subsidiary Risk Not applicable.
Pack Group Not applicable.
Precaution for User No data available.
Hazchem Code N/A
EPG Not applicable.
Special Provision Not applicable.

15. REGULATORY INFORMATION

Poisons Schedule 5
EPG N/A
AICS Name 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE
NZ Toxic Substance N
HSNO Hazard Classification 6.4A
ERMA Approval Code HSR007179

16. OTHER INFORMATION

Literature References No data available.

Sources for Data No data available.

Legend to Abbreviations and Acronyms

< less than

> greater than

ADG Australian Dangerous Goods Code

AICS Australian Inventory of Chemical Substances

CAS Chemical Abstracts Service (Registry Number)

cm² square centimetres

CO₂ Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) degrees Celsius

ERMA Environmental Risk Management Authority

g gram

g/cm³ grams per cubic centimetre

g/l grams per litre

HSNO Hazardous Substance and New Organism

IATA International Air Transport Association Dangerous Goods Regulations

IDLH Immediately Dangerous to Life and Health

IMDG International Maritime Dangerous Goods Code

immiscible liquids are insoluble in each other

kg kilogram

kg/m³ kilograms per cubic metre

LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals

ltr Litre

m³ cubic metre

mbar millibar

mg milligram

mg/24H milligrams per 24 hours

mg/kg milligrams per kilogram

mg/m³ milligrams per cubic metre

Misc miscible

miscible liquids form one homogeneous liquid phase regardless of the amount of either component present

mm millimetre

mPa.s milli Pascal per second

N/A Not Applicable

NOHSC National Occupational Health and Safety Commission

OECD Organization for Economic Co-operation and Development

PEL Permissible Exposure Limit

ppb parts per billion

ppm parts per million

ppm/2h parts per million per 2 hours

ppm/6h parts per million per 6 hours

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne tonne

TWA Time Weighted Average

ug/24H micrograms per 24 hours

UN United Nations (number)

wt weight

This MSDS summarises Price Chemicals Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Price Chemicals Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

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