



## SAFETY DATA SHEET

**PRODUCT NAME:** TOLYLTRIAZOLE

July 2013

### IDENTIFICATION

**Product Name:** TOLYLTRIAZOLE  
**Other Names:** METHYL-1H-BENZOTRIAZOLE ; 1H-BENZOTRIAZOLE, METHYL-  
**Product Code:** ZTTRI  
**Uses:** Corrosion inhibition.

**Supplier:** HamChem Hamilton Chemicals Ltd, 355 Kahikatea Drive, Hamilton  
Phone: 078475840, Fax 078475882, [info@hamchem.co.nz](mailto:info@hamchem.co.nz)

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

### HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC.

HARMFUL

#### Risk Phrases

R22 Harmful if swallowed.

#### Safety Phrases

S22 Do not breathe dust.

S24 Avoid contact with skin.

S36 Wear suitable protective clothing.

In case of contact with eyes, rinse immediately with plenty of water and seek  
S26 medical advice.

S60 This material and its container must be disposed of as hazardous waste.

#### ERMA New Zealand Approval Code

#### HSNO Hazard Classification

No data available.

**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.**

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HamChem Ltd, 355 Kahikatea Drive, Hamilton, New Zealand. Phone 07 847 5840 Fax 07 847 5882 E-Mail - [info@hamchem.co.nz](mailto:info@hamchem.co.nz)

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COMPOSITION & INFORMATION ON INGREDIENTS
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**Ingredients**

Chemical Entity	CAS Number	Proportions (%)
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TOLYLTRIAZOLE	[29385-43-1]	> 99
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FIRST AID MEASURES
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Description of necessary measures according to routes of exposure.

**Swallowed**

Immediately give plenty of water to drink provided person is conscious. Do NOT induce vomiting. Seek medical attention.

**Eye**

Immediately flush eyes with plenty of water holding eyelids open. Consult an eye specialist immediately.

**Skin**

Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.

**Inhaled**

Remove victim from exposure to fresh air. If breathing is difficult, give oxygen as needed. Seek medical attention.

**Advice to Doctor**

Treat symptomatically based on individual reactions of patient and judgement of doctor. NOTE: For advice in an emergency, contact a Poisons Information Centre (Australia 13-11-26 or New Zealand 0800-764-766).

**Aggravated medical conditions caused by exposure**

Detailed information about the effects of over-exposure in the human being is unavailable. Experience thus far has not provided any example of obvious over-exposure with resultant symptoms. Clinical studies of intravenous injection of mice have indicated an effect on the central nervous system.

FIRE FIGHTING MEASURES
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**Extinguishing Media**

In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.

**Hazards from Combustion Products**

Combustible solid. Avoid generating dust. Highly exothermic reaction from 160°C in temperature. In the case of dusty organic products, the possibility of a dust explosion must be considered. Incompatible with oxidizing agents and sources of ignition. When involved in a fire, this product may generate carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases.

**Special Protective Precautions and Equipment for Fire Fighters**

Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

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**Flammability Conditions**

Product is a combustible solid.

Additional Information

**Hazchem Code**

N/A

<b>ACCIDENTAL RELEASE MEASURES</b>
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**Emergency Procedures**

Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use spark-proof 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 chemical-waste container and hold for safe disposal.

<b>HANDLING &amp; STORAGE</b>
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**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.

**Conditions for Safe Storage (Including Any Incompatibles)**

Store in a cool, dry, well-ventilated area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect from physical damage. Store away from incompatible materials including strong oxidizing agents and sources of ignition. Protect from direct sunlight, moisture and static discharges. 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**

Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer.

<b>EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>
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**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/m<sup>3</sup> (for inspirable dust) and 3mg/m<sup>3</sup> (for respirable dust).

**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. Vent waste air only via suitable separators or scrubbers.

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**Personal Protection**

RESPIRATOR: Wear an effective particle filter respirator where dusts are formed and engineering controls are inadequate (AS1715/1716). EYES: Chemical goggles (AS1336/1337). HANDS: Rubber or PVC gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

<b>PHYSICAL &amp; CHEMICAL PROPERTIES</b>
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**Appearance:** beige granules

**Formula:** C<sub>7</sub>H<sub>7</sub>N<sub>3</sub>

**Odour:** No data available.

**Vapour Pressure:** Not applicable.

**Vapour Density:** Not applicable.

**Boiling Point:** >200 deg C

**Melting Point:** 80-86 deg C

**Solubility in Water:** 5 g/l (25 deg C)

**Specific Gravity:** Not applicable.

**Flash Point:** Closed Cup 180

**pH:** 7 (1g/L)

**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:** Potential dust explosion hazard.

**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:** Not applicable.

**Decomposition Temperature:** Not applicable.

**Additional Information:** Molecular Weight: 133.15 Bulk Density: 550g/L

<b>STABILITY &amp; REACTIVITY</b>
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**Chemical Stability**

Product is stable under normal conditions of use, storage and temperature.

**Conditions to Avoid**

Avoid excessive heat, generating dust, direct sunlight, moisture, static discharges and high temperatures.

**Incompatible Materials**

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Incompatible with oxidizing agents and sources of ignition.

**Hazardous Decomposition Products**

When involved in a fire, this product may generate carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases.

**Hazardous Reactions**

No hazardous reactions under normal use conditions.

<b>TOXICOLOGICAL INFORMATION</b>
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**Toxicity Data**

Oral LD50 Rat: 720mg/Kg Skin Irritant: Non-irritant to rabbit skin (4hr) Eye Irritant: Non-irritant to rabbit eyes In the guinea-pig, this product did not show a sensitizing effect.

Health Effects – Acute

**Swallowed**

Harmful if swallowed.

**Eye**

Contact of dust with the eyes may cause mechanical irritation.

**Skin**

Not expected to cause irritation to the skin.

**Inhaled**

Inhalation of dusts may cause irritation to the respiratory tract.

<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity**

No data available.

**Persistence and Degradability**

No information available on persistence/degradability for this product.

**Mobility**

No information available on mobility for this product.

**Environmental Fate (Exposure)**

Avoid contaminating waterways, drains or sewers.

**Bioaccumulative Potential**

No information available on bioaccumulation for this product.

<b>DISPOSAL CONSIDERATIONS</b>
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**Disposal**

Dispose of in accordance with all local, state and federal regulations at an approved waste disposal facility, preferably by incineration. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues.

**Special Precautions for Land Fill or Incineration**

The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

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<b>TRANSPORT INFORMATION</b>
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**Land Transport (Australia)****Regulation Name:** ADG Code**UN Number:** Not applicable.**Shipping Name:** TOLYLTRIAZOLE**Dangerous Goods Class:** Not applicable.**Subsidiary Risk:** Not applicable.**Pack Group:** Not applicable.**Precaution for User:** HARMFUL**Hazchem Code:** N/A**Special Provision:** Not applicable.**Land Transport (New Zealand)****Regulation Name:** NZS5433**UN Number:** Not applicable.**Shipping Name:** TOLYLTRIAZOLE**Dangerous Goods Class:** Not applicable.**Subsidiary Risk:** Not applicable.**Pack Group:** Not applicable.**Precaution for User:** HARMFUL**Hazchem Code:** N/A**Special Provision:** Not applicable.**Sea Transport****Regulation Name:** IMDG Code**UN Number:** No data available.**Shipping Name:** No data available.**Dangerous Goods Class:** No data available.**Subsidiary Risk:** No data available.**Pack Group:** No data available.**Precaution for User:** HARMFUL**Hazchem Code:** No data available.**Special Provision:** Not applicable.

<b>REGULATORY INFORMATION</b>
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No data available.

**Poisons Schedule:** N/A**EPG:** N/A**AICS Name:** 1H-BENZOTRIAZOLE, METHYL-**NZ Toxic Substance:** N**HSNO Hazard Classification:** No data available.**ERMA Approval Code:** No data available.

<b>OTHER INFORMATION</b>
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**Literature References**

No data available.

**Sources for Data**

No data available

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