

# SAFETY DATA SHEET

**PRODUCT NAME:** TOLYLTRIAZOLE

Issue Date: May 23

## 1. IDENTIFICATION

**Product Name:** TOLYLTRIAZOLE  
**Other Names:** METHYL-1H-BENZOTRIAZOLE ; 1H-BENZOTRIAZOLE, METHYL-  
**Product Code:** ZTTRI  
**Uses:** Corrosion inhibition.  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
Phone: 079744971 Web: [www.hamchem.nz](http://www.hamchem.nz) Email: [sales@hamchem.nz](mailto:sales@hamchem.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

## 2. HAZARD IDENTIFICATION



### GHS Classifications:

Acute Toxicity (Oral) – Category 4

Specific Target Organ Toxicity (Single Exposure) – Category 3 (Respiratory)

**Signal Word:** WARNING

### Hazard Statements

H302 – Harmful if swallowed

H335 – May cause respiratory irritation

### Prevention

P264 – Wash hands thoroughly after handling

P270 – Do not eat, drink or smoke when using this product

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray

P271 – Use only outdoors or in a well-ventilated area

### Response

P301 + P312 – IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell

P330 – Rinse mouth

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 – Call a POISON CENTRE or Doctor if you feel unwell

### Storage

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up

### Disposal

P501 – Dispose of contents/container to an approved waste facility in accordance with local regulations

PRODUCT NAME: TOLYLTRIAZOLE

### 3. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Composition (%)
Tolyltriazole	29385-43-1	>98

### 4. FIRST AID MEASURES

**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.

### 5. FIRE FIGHTING MEASURES

**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.

**Flammability Conditions:** Product is a combustible solid.

### 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:** Personnel involved in the cleanup 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.

PRODUCT NAME: TOLYLTRIAZOLE

## 7. HANDLING & 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.

**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.

**Container Type:** Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. 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 Worksafe NZ. 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.

**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).

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Beige granules
<b>Formula:</b>	C <sub>7</sub> H <sub>7</sub> N <sub>3</sub>
<b>Odour:</b>	No data available.
<b>Boiling Point:</b>	>200 deg C
<b>Melting Point:</b>	80-86 deg C
<b>Solubility in Water:</b>	5 g/l (25 deg C)
<b>Specific Gravity:</b>	Not applicable.
<b>Flash Point:</b>	Closed Cup 180
<b>pH:</b>	7 (1g/L)
<b>Potential for Dust Explosion:</b>	Potential dust explosion hazard.
<b>Molecular Weight:</b>	133.15
<b>Bulk Density:</b>	550g/L

## 10. STABILITY & REACTIVITY

**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:** Incompatible with oxidizing agents and sources of ignition.

Recommendations, suggestions or statements made in the bulletins are intended for the assistance of our customers. They are based upon our experience and judgement but must not be regarded as amounting to a legal warranty or as involving any liability on our part and must be read in conjunction with and subject to our Conditions of Sale which apply to goods supplied by us.

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**PRODUCT NAME:** TOLYLTRIAZOLE

**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.

## 11. TOXICOLOGICAL INFORMATION

**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.

## 12. ECOLOGICAL INFORMATION

**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.

## 13. DISPOSAL CONSIDERATIONS

**Disposal:** Dispose of in accordance with all local, regional and national 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.

## 14. TRANSPORT INFORMATION

**Not considered Dangerous Goods for Transport (NZS5433)**

## 15. REGULATORY INFORMATION

**HSNO Classifications:** 6.1D, 6.1E

**HSNO Approval:** HSR002503 – Additive, Process Chemicals & Raw Materials (Subsidiary Hazard) Group Standard 2020

## 16. OTHER INFORMATION

**End of SDS**