



Kanghua Chemical Co., Ltd.

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Tolyltriazole
Chemical name: Tolyltriazole
Synonyms: 4(5)-Methyl-1H-Benzotriazole.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Tolyltriazole can be used as corrosion inhibitors and De-icing products
Uses advised against: No information available.

1.3 Details of the supplier of the SDS

Manufacturer: Kanghua Chemical Co., Ltd
Address: No. 28, Yanggang Avenue, Shitan Industrial Park, Cross Town, Quanjiao County, Chuzhou City, Anhui Province, China
Postal code: 239599
Telephone: 86-550-5388660
E-mail: zj@kanghuachem.com

1.4 Emergency telephone number

+86-550-5388660 (24 Hours available)

SECTION 2: Hazards identification

GHS Classification:

Acute Toxicity - Oral (Cat. 4), Dermal (Cat. 4), Inhalation (Cat. 4)
Eye Irritation (Category 2A)
Acute Aquatic Toxicity (Category 3)
Chronic Aquatic Toxicity (Category 3)

Signal Word: Warning

Pictograms: Exclamation Mark



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Hazard statement(s):

H302+H312+H332: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

H319: Causes serious eye irritation.

H402+H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P273: Avoid release to the environment.

P261 + P271: Avoid breathing dust and/or mist. Use in a well-ventilated area.

P264 : Wash all affected body parts thoroughly after handling.

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

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

Response:

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

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

P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell

P330 : Rinse mouth

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

P337 + P313 : If eye irritation persists: Get medical advice/attention P312 : Call a POISON CENTER/doctor if you feel unwell.

P391 + P501 : Collect Spillage. Dispose of contents/containers in accordance with local regulations.

SECTION 3: Composition/information on ingredients

Substance/Preparation information

Substance name: methyl-1H-benzotriazole

Index No.: Not listed

CAS No.: 29385-43-1

Purity: $\geq 99.0\%$

Formula: $C_7H_7N_3$

Molecular Weight: 133.15



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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

In all cases of doubt, or when symptoms persist, seek medical attention.

Following inhalation:

Move immediately to fresh air, avoid exertion and seek medical attention. If breathing is difficult, give oxygen.

Following skin contact:

Wash with soap and plenty of water. If skin irritation occurs: Get medical attention.

Following eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Following ingestion:

Rinse mouth. Call a POISON Center or doctor if you feel unwell. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.

4.2 Most important symptoms and effects, both acute and delayed

May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of the immediate medical attention and special treatment needed

No information available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder, carbon dioxide, water or chemical foams.

Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx).



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5.3 Advice for fire-fighters

Fire-fighters should wear appropriate breathing apparatus and protective equipment. Fire-fighting in the wind. Ensure adequate ventilation. Move container from fire area if it can be done without risk. Cool containers with water spray. Prevent fire-fighting water from entering surface water or groundwater. Evacuate all non-essential personnel.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to SECTION 8 for personal protective equipment. Ensure adequate ventilation. Remove all ignition sources. Avoid contact with eyes and skin. Avoid generation of dust.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Discharge into the environment must be avoided. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

Sweep up, place in a container and hold for waste disposal. Wash contaminated area with plenty of water. Avoid creation of dust.

6.4 Reference to other SECTIONS

See SECTION 7 for information on safe handling.

See SECTION 8 for information on personal protection equipment.

See SECTION 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use this material with adequate ventilation. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid breathing dust.

7.2 Conditions for safe storage, including any incompatibilities



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Keep container tightly closed in a cool dry and well-ventilated place. Keep away from heat and ignition sources. Keep away from incompatible materials.

SECTION 8 : Exposure controls/personal protection

8.1 Exposure controls

Appropriate engineering controls:

Provide local exhaust or process enclosure ventilation system. Prepare safety shower and eye wash equipments.

8.2 Personal protective equipment

Eye and protection: Wear appropriate protective eyeglasses or chemical safety goggles.

Hand protection: Wear nitrile rubber gloves to prevent hand exposure.

Skin protection: Wear suitable protective clothing.

Respiratory protection: Always use a respirator when necessary.

8.3 Environmental exposure controls:

Avoid entering into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Light yellow or off-white powder or granular
Odour:	Not available
pH:	5.0-6.0
Melting point:	83-87°C.
Initial boiling point and boiling range:	Decomposition before reaching boiling point.
Flash point:	190 °C
Evaporation rate:	Not applicable.
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure(mmHg):	Not applicable.
Density at 20°C:	1.2648 - 1.2672 g/cm ³
Solubility(ies):	4.05g/L (25°C) in water.
Partition coefficient:	Not available.
Auto-ignition temperature:	Not available.



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Decomposition temperature:	Not available.
Viscosity:	Not applicable.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Strong heating, incompatible materials.

10.5 Incompatible materials

Strong oxidizing materials, Heavy metals.

10.6 Hazardous decomposition products

Other decomposition products-no data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity:	Oral: LD ₅₀ 720mg/kg (Rat)
	Inhalation: Not available.
	Dermal LD ₅₀ : Not available.
Skin corrosion/irritation: Rabbit test:	Not irritating.
Serious eye damage/irritation:	Not available.



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Respiratory or skin sensitization:	Not availalbe.
Germ cell mutagenicity:	Not available
Reproductive toxicity:	No information available.
Aspiration hazard:	No information available.

SECTION 12: Ecological information

12.1 Toxicity

Acute fish toxicity:	LC ₅₀ (96h)=42.2 mg/l(Brachydanio ratio approx.)
Acute algae toxicity:	EC ₅₀ (72h)=32 mg/l (Scenedesmus subspicatus)

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Mobility in soil

Not available.

12.4 Other adverse effects

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Waste treatment methods : Dispose in accordance with all applicable federal, state/regional and local laws and regulations. Recommended wash container recycling.

SECTION 14: Transport information

Not dangerous cargo. Keep dry. Stow at a cool place, susceptible to heat. Keep separated from foodstuffs.

SECTION 15: Regulatory information

U.S. FEDERAL REGULATIONS:

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: No components of this product are list.

SARA TITLE III (EPCRA) Section 313: No components of this product are listed



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SARA TITLE III (EPCRA) Section 311/312:

Acute health hazard - Yes

Chronic health hazard – No

Fire Hazard - No Pressure

Hazard – No

Reactivity Hazard - No

SECTION 16: Other information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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