



南京向胜泰化工有限公司

NANJING XIANGSHENGTAI INDUSTRY CO., LTD.

Room 206, Building 2, Xincheng Fazhan Center, East Tianyuan Road, Nanjing, China

Material Safety Data Sheet

Tolyltriazole

1. Identification

Product Name: Tolyltriazole

Other Name: Methyl 1 H-Benzotriazole

Recommended use and restrictions on use: Corrosion inhibitors

Names, addresses, and phone numbers of the manufacturer or supplier:

Nanjing Xiangshengtai Industry Co., Ltd.

Room 206, Building 2, Xincheng Fazhan Center, East Tianyuan Road, Nanjing, China

Tel: (025) 8480 1979

Emergency contact phone numbers/fax numbers: (025) 8480 1979

2. Hazard(s) identification

Emergency Overview

OSHA Hazards Harmful by ingestion., Harmful by skin absorption., Irritant

GHS Classification

Acute toxicity, Inhalation (Category 5)

Acute toxicity, Dermal (Category 4)

Acute toxicity, Oral (Category 4)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3)

Chronic aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictogram:

SIGNAL WORD: Warning

Hazard statement(s)

H302 + H312 Harmful if swallowed or in contact with skin.

H319 Causes serious eye irritation.

H333 May be harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing.

P305 + P351 + P338

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



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3. Composition/information on ingredients

Substance/Preparation information

Substance name: methyl-1H-benzotriazole

Synonym: 4(or5)-methyl-1H-1,2,3-benzotriazole

Index No.: Not listed

CAS No.: 29385-43-1

EC No.: 249-596-6

Purity: >99.0 %

Molecular Formula: C₇H₇N₃

Molecular Weight: 133.1506

Constituents: 5-methylbenzotriazole (EC# 205-265-8): ca. 55.0 - ca. 65.0 % (w/w)

4-methyl-1H-benzotriazole (EC# 249-921-1): ca. 35.0 - ca. 45.0 % (w/w)

4. First-aid measures

The first aid measures for different exposure routes:

Inhalation: Take the person to fresh air. If there is difficulty in breathing, seek medical advice.

Skin contact: Wash skin with plenty of water and soap. If skin reactions occur, seek medical advice.

Eye contact: Open the eyelids and rinse out for at least 15 minutes with water. Consult an eye specialist immediately.

Ingestion: Never give anything by mouth to an unconscious person. Drink some water. The mouth should be rinsed out several times. Seek medical advice.

The most important symptoms and hazardous effects:

Experience thus far has not provided any example of obvious overexposure with resultant symptoms. Clinical studies of intravenous injection of mice have indicated an effect on the central nervous system.

Notes to physicians: Treat symptomatically based on judgment of doctor and individual reactions of patient.

5. Fire-fighting measures

Suitable fire extinguishing media: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Use equipment/media appropriate to surrounding fire conditions.

Specific hazards may be encountered during fire-fighting: N/A

Specific fire-fighting methods: N/A

Special equipment for the protection of firefighters: N/A



6. Accidental release measures

Personal precautions: Clean-up personnel should wear full protective clothing including breathing apparatus in dusty conditions.

Environmental precautions:

Methods for cleaning up: Examine possibilities for re-utilizations. Package product wastes. Close and label the waste receptacles and, likewise, any uncleaned empty containers. Sweep up spill and reclaim or place in a covered waste disposal container.

7. Handling and storage

Handling: Precautions should generally be taken against electrostatic charges according to the equipment used and the way the product is handled and packaged.

Storage: Store in a cool, dry area in the original container. Keep containers tightly closed when not in use.

8. Exposure controls/personal protection

Engineering control: If dust is generated ensure effective ventilation. Vent waste air only via suitable separators or scrubbers.

Control parameters: 8 hours time weighted average exposure limits/Short-term exposure limits/maximum exposure limits biological standards

Personal protective equipment: Safety glasses. Adequate ventilation.

Respiratory protection: In case of dust formation use a particle filter respirator.

Hand protection: Wear rubber or PVC gloves

Eye protection: Wear eye goggles

Skin and body protection: Wear general overalls to minimize the possibility of exposure.

Hygiene measures: Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking or using toilet facilities. Avoid contact with skin and eyes and the inhalation of dust.

9. Physical and chemical properties:

Appearance (physical state, color, etc.): light yellow or off-white granule or powder

Odor: N/A

Odor threshold: N/A

Melting point: 80-86°C

PH value: 7 (1g/L)

Boiling point/boiling point range: >200°C

Flammability (solid, gas)

Decomposition temperature:

Flash point: 180°C

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Test method: Closed cup

Auto-ignition temperature: N/A

Explosion limits:N/A

Vapor pressure:N/A

Vapor density:N/A

Bulk density:Approx. 550g/L

Solubility:5 g/L(25°C) in water

Partition coefficient(n-octanol/water,log Kow):N/A

Evaporation rate

10. Stability and reactivity

Stability:

Possible hazardous reactions under specific conditions: No hazardous reactions when stored and handled according to instructions. Conditions to avoid: Highly exothermic reaction from 160°C Materials to avoid: carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases.

Hazardous decomposition products:No hazardous decomposition products if stored and handled prescribed/indicated.

11. Toxicological information

Oral LD50 = approximately 720 mg/kg (Rat)

Dermal LD50 = not available

Inhalation LC50 = not available

Skin irritation: non-irritant (Rabbit, 4hr exposure)

Eye irritation: non-irritant (Rabbit) In the guinea pig the product did not show a sensitizing effect.

12. Ecological information:

Acute bacterial toxicity

Respiration inhibition test with activated sludge, EC50 approx. 330 mg/L (OECD 209 =ISO DP 8192)

Brachydanio Ratio Approx. 42.2 mg/L 96 hrs NOEC value 18.4 mg/L Acute toxicity for algae EC50 on green algae (Scenedesmus subspicatus) 32 mg/L 72 hrs

13. Disposal considerations

Steps to be taken in the event of a spill or discharge:

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal procedure:

Dispose in accordance with all applicable federal, state, and local environmental regulations.

14. Transport information

United Nations number(UN No):N/A

UN Proper shipping name:N/A

Email:julia@xstchem.com



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Transport hazard class(es):N/A

Packing group: N/A

Marine pollutant (Yes/No):No

Specific transport measures and precautionary conditions:

Risk Phrases R22 Harmful if swallowed

15. Regulatory information

EU regulation:

Authorisations:No information available.

Restrictions on use:No information available.

EINECS: CAS#29385-43-1 is listed in.

DSD (67/548/EEC): CAS#29385-43-1 is not listed in.

Chemical Safety Assessment

Chemical Safety Assessment has been carried out for this product.

16. Other information

Literature References:

Organization that prepared the MSDS

Nanjing Xiangshengtai Industry Co., Ltd.

Person who prepared the MSDS

Title: EHS

Date that the MSDS was prepared: 6/5/2011