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Hefei TNJ Chemical Industry Co.,Ltd.

B910-911 Xincheng Business Center,

Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Material Safety Data Sheet

N-Methyl-1,2-Benzisothiazol-3(2H)-one

Section 1: Chemical Product and Company Identification

Molecular formula: C₈H₇NOS

CAS Nr:2527-66-4

Molecular weight: 165.21

Synonyms:MBIT

Contact Information for Emergency: (0086) 551 65418678

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230004Anhui

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
N-Methyl-1,2-Benzisothiazol-3(2H)-one	2527-66-4	98

Section 3: Hazards Identification

Classification of the substance or mixture

Acute Toxicity (Oral) Category 3.

Acute Toxicity (Dermal) Category 4.

Acute Toxicity (Inhalation) Category 3.

Skin Corrosion/Irritation Category 2.

Serious Eye Damage/Eye Irritation Category 1.

Skin Sensitization Category 1.

Hazardous to the Aquatic Environment (Acute) Category 1.

GHS Label elements, including precautionary statements



Signal word: Danger.

Hazard statement(s): Toxic if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Very toxic to aquatic life.

Precautionary statement(s):

Prevention: Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing /eye protection/face protection.

Response: IF SWALLOWED: Immediately call a poison CENTER/doctor/.. Specific treatment (see below). Rinse mouth. IF ON SKIN: Wash with plenty of water/... Call a POISON CENTER/doctor/.../if you feel unwell. Specific treatment (see below). If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISONCENTER/doctor... Specific treatment (see below). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container to.....

Other hazards which do not result in classification: /

Section 4: First Aid Measures

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed: /

Indication of immediate medical attention and special treatment needed: /

Section 5: Fire and Explosion Data

Suitable extinguishing media: Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.

Special hazards arising from the chemical: Combustible solid which burns but propagates flame with difficulty.

Special protective actions for fire-fighters: Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.

Section 7: Handling and Storage

Precautions for safe handling: Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials.

Conditions for safe storage, including any incompatibilities: Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this MSDS.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Appropriate engineering controls: Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator.

Personal protective equipment

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, eg. PVC. Wear safety footwear or safety gumboots, eg. Rubber. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Section 9: Physical and Chemical Properties

Appearance	White crystalline
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	/
Initial boiling point and boiling range	/
Flash point	/
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	/
Vapour density	/
Relative density	/
Water solubility	/
Partition coefficient: noctanol/water	Miscible
Autoignition temperature	/
Decomposition temperature	/
Viscosity	/

Section 10: Stability and Reactivity Data

Reactivity: /

Chemical stability: Product is considered stable.

Possibility of hazardous reactions: Hazardous polymerisation will not occur.

Conditions to avoid: Presence of incompatible materials.

Incompatible materials: Oxidizing agent.

Hazardous decomposition products: Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x), sulfur oxides (SO_x), other pyrolysis products typical of burning organic material.

Section 11: Toxicological Information

Information on the likely routes of exposure: Inhaled, swallowed, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects

Inhalation: Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful.

Ingestion: Accidental ingestion of the material may be harmful.

Skin: Skin contact with the material may be harmful; systemic effects may result following absorption.

Eyes: The material produces severe ocular lesions after instillation.

Chronic health effects: Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Numerical measures of toxicity(such as acute toxicity estimates):

Section 12: Ecological Information

Toxicity: Very toxic to aquatic life.

Persistence and degradability: /

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

Section 13: Disposal Considerations

Disposal methods: Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.

Section 14: Transport Information

UN number: 2811.

UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.

Transport hazard class(es): 6.1.

Packaging group: III.

Environmental hazards: /

Special precautions for user: /

Section 15: Other Regulatory Information

Regulations:

This safety data sheet is in compliance with the following national standards: GB16483-2008, GB13690-2009, GB18218-2009, GB15258-2009, GB6944-2005, GB190-2009, GB191-2009, GB12268-2008, GA57-1993, GB/T 15098-2008, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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