

Anhui Fitech Materials Co.,Ltd

Safety Data Sheet (Thiourea)

According to UN GHS (the 6th revised edition) Issue date: Jul. 28, 2022

SECTION 1: Identification

1.1. Identification

Product identifier : Thiourea
Other means of identification : Thiocarbamide

1.2. Details of the supplier of the safety data sheet

Anhui Fitech Materials Co.,Ltd ADD: 9th Floor, Building B, Innovation Industrial Base, Huguang Road, Shushan District, Hefei, Anhui, China
TEL: +86-551-65566870
FAX: +86-551-65566870

1.3. Emergency telephone number

Emergency number : +86-551-65566870

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Toxicity (Oral) Category 4 , Carcinogenicity Category 2 ,
Toxic to reproduction Category 2 , Hazardous to the aquatic
environment - long-term hazard Category 2.

2.2. GHS Label elements, including precautionary statements



Signal word: Warning

Hazard statement(s) : Harmful if swallowed. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

IF exposed or concerned: Get medical advice/attention Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents/container to in accordance with national regulations.

Other hazards which do not result in classification: /

SECTION 3: Composition/Information on Ingredients

| Chemical Name | CAS No. | Concentration% | H2O Content % |
|---------------|---------|----------------|---------------|
| Thiourea | 62-56-6 | 99.0% | 1.0% |

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 :

Never give anything by mouth to an unconscious person. Induce vomiting. Rinse mouth with water. Consult a physician.

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

Indication of immediate medical attention and special treatment needed: /

SECTION 5: Firefighting Measures

Suitable extinguishing media:

Use water spray, foam, dry chemical, carbon dioxide or sand to extinguish.

Special hazards arising from the chemical:

Combustible. On combustion, may emit toxic fumes of carbon oxides, sulfur oxides.

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

Precautions for safe handling :

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure Controls/Personal Protection

Control parameters: /

Appropriate engineering controls:

Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Individual protection measures 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. Impervious clothing, Flame retardant antistatic protective clothing, 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.

Thermal hazards: /

SECTION 9: Physical and Chemical Properties

| | |
|---|------------------------|
| Appearance | White crystalline. |
| Odour | / |
| Odour Threshold | / |
| pH | / |
| Melting point/freezing point | 172.2°C |
| 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 | 1.4 (water=1) |
| Water solubility | 13.6 g/100 mL (20 °C). |
| Partition coefficient: noctanol/water | 2.5 |
| Autoignition Temperature | / |
| Decomposition Temperature | / |
| Viscosity | / |

SECTION 10: Stability and Reactivity

Reactivity: /

Chemical stability: /

Possibility of hazardous reactions: /

Conditions to avoid: Heat, presence of incompatible materials

Incompatible materials: Strong oxidizing agents, acids, etc.

Hazardous decomposition products: Carbon oxides, sulfur oxides, 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: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: May cause serious eye irritation.

Chronic health effects: /

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

SECTION 12: Ecological Information

Toxicity: Toxic to aquatic life with long lasting effects.

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

SECTION 13: Disposal Considerations

Disposal methods:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable articles to a licensed disposal company.

SECTION 14: Transport Information

UN number: 3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Transport hazard class(es): 9.

Packaging group, if applicable: III

Environmental hazards: Marine pollutes.

Special precautions for user: /

SECTION 15: Regulatory Information

Regulations:

This safety data sheet is in compliance with the following national standards: GB16483-2008 ,

GB13690-2009 , GB6944-2012 , GB/T15098-2008 , GB18218-2009 , GB15258-2009 , GB190-2009,

GB191-2009 , GB12268-2008 , GA57-1993 , GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

SECTION 16: Transport Information

References

"Model Regulations on the Transport of Dangerous Goods"

"The Globally Harmonized System of Classification and Labelling of Chemicals"

Form Date 28-Jul.-2022

Note 1:

When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2:

Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3:

As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "f" logo.

For and on behalf of



Anhui Fitech Materials Co.,Ltd