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原材料说明 MATERIAL SPECIFICATION

原材料 Material : THIOUREA

批号 Batch No : 160702

分子式 Formula : CH₄N₂S

分子量 Molecular Weight : 76.12

外观 Appearance : WHITE BRIGHT POWDER

包装 Package : IN 25KG PLASTIC WOVEN BAG

TEST ITEMS	SPECIFICATION	TEST RESULTS
PURITY	≥99.00%	99.20%
LOSS ON HEATING	≤0.40%	0.17%
ASH	≤0.10%	0.06%
INSOLUBILITY IN WATER	≤0.02%	0.01%
SULFORHODANIDE (WITH CNS-)	≤0.02%	0.01%
MELTING POINT	≥171°C	171°C

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MSDS FOR THIOUREA

1. Chemical Product and enterprise information

Product Name..... Thiourea
Other Name..... Thiocarbamide
Company..... KAI DA YI SHENG CO.,LTD.
Telephone Number..... +(852)3589 3359
Fax..... +(852)3589 3399

2. Composition/Information on Ingredients

Ingredients Thiourea
Chemical Formula CH₄N₂S
CAS No. 62-56-6

3. Hazards Identification

Inhalation.....Irritating to the respiratory tract. Can produce delayed pulmonary edema.
Eye contact.....May cause irritation to the eyes; May cause chemical conjunctivitis.
Skin contact.....May cause skin irritation.
Ingestion.....Irritation of the mouth and throat with nausea and vomiting.

4. First-Aid Measures

♀ Inhalation: Remove affected person to fresh air. Seek medical attention if effects persist.
♀ Eye contact: Flush eyes with running water for at least 15 minutes with eyelids held open.
Seek specialist advice.
♀ Skin contact: Wash affected skin with soap and mild detergent and large amounts of water.
♀ Ingestion : If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not inducing vomiting.

5. Fire-Fighting Measures

♀ Fire Hazards:Not combustible.If involved in a fire,decompose generating sulphur dioxide,ammonia,and sulfinic acid.Incompatible with oxidizing agents,water and heavy metals.Material is shock sensitive and potentially explosive. Hazardous decomposition products include carbondioxide and probably carbon monoxide. Oxides of nitrogen and sulphur may also be present.Hazardous polymerization will not occur.
♀ Fire-Fighting Measures:
▶ Evacuate all non-essential personnel.
▶ Wear protective clothing and self-contained breathing apparatus.
▶ Remain upwind of fire to avoid hazardous vapors and decomposition products.
▶ Use water spray to cool fire-exposed containers.

6. Accidental Release Measures

♀ Spill Clean-up Procedures:
▶ Eliminate all sources of ignition. Evacuate unprotected personnel from equipment recommendations found in Section 8. Never exceed any occupational exposure limit.
▶ Shovel or sweep material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to inventory.
▶ Flush remaining area with water to remove trace residue and dispose of properly.
Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.
▶ Do not touch or walk through spilled material. Keep away from combustibles (wood, paper,oils, etc.). Do not return any product to container because of the risk of contamination.

7. Handling and Storage

♀ Storage:
▶ Store in a cool (below 30 °C), dry, well ventilated area away from all source of ignition

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and out of direct sunlight.

- ▶ Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
- ▶ Never return unused product to storage container.
- ▶ Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap.
- ▶ Ensure pressure relief and adequate ventilation.
- ▶ Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.

♀ Handling:

- ▶ Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- ▶ Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- ▶ Prevent contact with combustible or organic materials.
- ▶ Label containers and keep them tightly closed when not in use.
- ▶ Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

♀ Engineering Controls:

- ▶ General room ventilation is required. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits.

To determine exposure levels, monitoring should be performed regularly.

♀ Respiratory Protection:

- ▶ For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres or when exposures exceed limit values, wear a NIOSH approved respirator.

♀ Eye/Face Protection:

- ▶ Wear chemical safety goggles and a full face shield while handling this product.

♀ Skin Protection:

- ▶ Prevent contact with this product. Wear gloves and protective clothing depending on condition of use.

♀ Other Protective Equipment:

- ▶ Eye-wash station.
- ▶ Safety shower.
- ▶ Impervious clothing.
- ▶ Rubber boots.

♀ General Hygiene Considerations:

- ▶ Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

9. Physical and Chemical Properties

Appearance.....	White bright powder
Odor.....	Taste bitter
Melting Point.....	171MIN
Boiling Point.....	Decompose
Extinguishing Media.....	Water
Density.....	1.41
Dissolvability.....	Dissolve in water, alcohol, and weak in aether.
Main usage.....	used in organic sythesization, also in medicine, fiber accretion and glit material etc.

10. Stability and Reactivity

♀ Stability:

- ▶ Stable at room temperature in closed containers under normal storage and handling conditions.

♀ Conditions to Avoid:

- ▶ Water.
- ▶ Excessive heat.
- ▶ Strong acid.
- ▶ Strong oxidizing agents.

♀ Hazardous Decomposition Products:

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► Ammonia, Sulfur dioxide.

11. Toxicological Information

♀ No specific data

12. Ecological Information

♀ No specific data

13. Disposal Considerations

♀ Waste Treatment:

Dispose of in an approved waste facility operated by an authorized contractor in compliance with local regulations.

♀ Package Treatment

The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

14. Transport Information

Proper Shipping Name.....Thiourea

Dangerous Goods Code.....2811

Packing Type.....III

Packing means.....

Note for transportation.....Make sure the packaging or container is integrated and well sealed before transportation; make sure the container or case avoid from leaking, collapsing, falling or shattering in the process of transportation. Strictly prohibit from muddling along with acid, oxidant, foodstuff and additive. There should be relevant sorts and quantities of fire-protecting and leakage emergency equipment matched with the transit vehicles. Prohibit from insulating, drenching, high-temperaturing. When transport in the highroad, should take the regulated route.

15. Rule of Law Information

Statute of Chemical Dangerous Goods' Safety Administration (issued by the State Department on January 26, 2002), Detail Rules for the Statute of Chemical Dangerous Goods' Safety Administration (Hua lao fa No.677 [1992]), Regulations of Safely Using Chemicals in Working Yard ([1996] lao bu fa No.423) and so on, have all made correspondence prescription for the safe usage, production, storage, transportation and pack-loading of these dangerous chemicals. The common chemical classifying and symboling terms (GB 13690-92) identifies this chemical as the type of 6.

16. Other Information

The data in this Material Safety Data Sheet is believed to be correct. However, since conditions of use are outside our control it should not taken as a warranty of representation for which KAIDA YISHENG CO.,LTD. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

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