

化 学 品 安 全 技 术 说 明 书

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MSDS标题

2-噻吩甲酰肼安全技术说明书

产品标题

2-噻吩甲酰肼;2-噻吩羧酸肼;噻吩-2-羧酸肼

CAS号

2361-27-5

化学品及企业标识

- 化学品名称: 2-噻吩甲酰肼
- 化学式 $C_5H_6N_2OS$
- CAS号: 2361-27-5
- 分子量 142.18 g/mol
- 供应商信息:
公司名称: 山东西亚化学有限公司
地址: 山东省临沂市临沭县经济开发区朝阳路
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成分及组成信息

- Chemical Identity: 2-Thiophenecarboxylic acid hydrazide
- Purity: $\geq 98\%$ (typical)
- Impurities: Residual solvents (e.g., ethanol, hydrazine hydrate)

危险性质描述

- GHS Classification:

- Acute Toxicity (Oral): Category 3 (H301)
- Skin Irritation: Category 2 (H315)
- Eye Irritation: Category 2A (H319)
- Specific Target Organ Toxicity (Single Exposure): Category 3 (H335)
- Hazard Statements:
 - H301: Toxic if swallowed.
 - H315: Causes skin irritation.
 - H319: Causes serious eye irritation.
 - H335: May cause respiratory irritation.
- Precautionary Statements:
 - P261: Avoid breathing dust/fume/gas.
 - P301+P310: IF SWALLOWED: Immediately call a poison center.
 - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

急救措施

- Inhalation: Move to fresh air. Seek medical attention if breathing is difficult.
- Skin Contact: Wash with soap and water. Remove contaminated clothing.
- Eye Contact: Rinse immediately with plenty of water (15 minutes). Consult ophthalmologist.
- Ingestion: Do NOT induce vomiting. Rinse mouth and seek immediate medical help.

消防措施

- Extinguishing Media: Dry powder, CO₂, sand. Avoid water jets (may spread dust).
- Hazardous Combustion Products: CO, NO_x, SO_x, hydrogen cyanide.
- Protective Equipment: Wear self-contained breathing apparatus (SCBA).

泄露应急处理

- Personal Precautions: Wear gloves, goggles, and dust mask.
- Containment: Collect spilled material in sealed containers.
- Environmental Precautions: Prevent entry into drains or soil.

处理和储存

- Handling: Use in fume hood. Avoid dust formation. Ground containers.
- Storage: Store in cool, dry place away from oxidizers and acids. Keep container tightly closed.

接触控制

- Engineering Controls: Local exhaust ventilation.

- PPE:
- Gloves: Nitrile or neoprene.
- Eye Protection: Chemical goggles.
- Respiratory Protection: N95 mask (if dust is present).

理化特性

- Appearance: White to off-white crystalline powder.
- Melting Point: ~160-165°C (dec.)
- Solubility: Slightly soluble in water; soluble in ethanol/DMSO.
- Stability: Stable under recommended storage conditions.

稳定性和反应活性

- Incompatible Materials: Strong oxidizers, acids, bases.
- Hazardous Decomposition: Heating releases toxic fumes (NO_x, SO_x).

毒理学信息

- Acute Effects:
- Oral LD₅₀ (rat): ~300 mg/kg (estimated).
- Skin Irritation: Moderate (rabbit test).
- Chronic Effects: Limited data; handle as potential sensitizer.

生态学资料

- Aquatic Toxicity: EC₅₀ (Daphnia): >100 mg/L (low acute hazard).
- Persistence: Biodegradation data not available.

废弃处理

- Waste Code: Consult local regulations.
- Disposal Method: Incineration in licensed facility.

运输信息

- UN Number: Non-regulated (verify locally).
- Packing Group: III (if applicable).

法规信息

- REACH: Registered if manufactured/imported ≥ 1 ton/year.
- TSCA: Listed in US inventory.

其他信息

- Revision Date: [Date]
- Disclaimer: Data is for guidance only. User assumes all risks.

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