



MB

Henan Rongxin Auxiliary Co., Ltd.

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name 2-Mercaptobenzimidazole
Supplier Henan Rongxin Auxiliary Co., Ltd.
Address: East of Xiaozhuang Village, Shancheng District, Hebi
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description 2-Mercaptobenzimidazole

Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name
1	98	583-39-1	2-Mercaptobenzimidazole

Other information Formula: C7H6N2S

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: off-white.

Caution! Causes eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively. Antidote:

None reported.

5. FIRE-FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases

may be generated by thermal decomposition or combustion.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.



6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
2-Mercaptobenzimidazole	none listed	none listed	none listed

OSHA Vacated PELs:

2-Mercaptobenzimidazole:

No OSHA Vacated PELs are listed for this chemical. Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Appearance:	off-white
Odor:	None reported.
pH:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Evaporation Rate:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
initial Melting Point:	min 295.00deg C

Autoignition Temperature: 480 deg C (896.00 deg F)
Flash Point: > 250 deg C (> 482.00 deg F)
NFPA Rating: (est.) Health: 1; Flammability: 0; Reactivity: 0
Explosion Limits, Lower: Not available.
Upper: Not available.
Decomposition Temperature:
Solubility: soluble in acetone, ethyl acetate and et
Specific Gravity/Density:
Molecular Formula: C7H6N2S
Molecular Weight: 150.20



10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures. Conditions to Avoid:

Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials:

Strong oxidizing agents - strong bases.

Hazardous Decomposition Products:

Hydrogen cyanide, nitrogen oxides, carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 583-39-1: DE1050000

LD50/LC50:

CAS# 583-39-1: Oral, mouse: LD50 = 750 mg/kg.

Carcinogenicity:

2-Mercaptobenzimidazole -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

Maternal Effects, fetotoxicity, musculoskeletal system developmental abnormalities, TDLo-Oral:Rat =110 mg/kg.

Neurotoxicity:

No information available. Mutagenicity:

No information available.
Other Studies:

Standard Draize Test onto skin: Rabbitt=500mg/24H.

12. ECOLOGICAL INFORMATION

Other
No information available.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

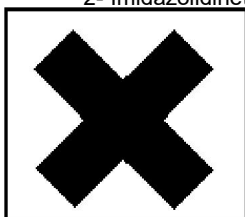
14. TRANSPORT INFORMATION

US DOT
No information available
Canadian TDG
No information available.

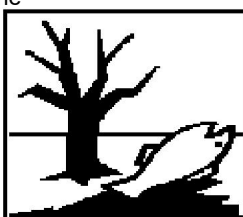
15. REGULATORY INFORMATION

Chemical description

2- Imidazolidinethione



IRRITANT (Xi)



DANGEROUS FOR THE ENVIRONMENT (N)

Symbol(s)



US FEDERAL

TSCA

CAS# 583-39-1 is listed on the TSCA inventory. Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule. Section 12b

None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ. Section 302 (TPQ)

None of the chemicals in this product have a TPQ. Section 313

No chemicals are reportable under Section 313. Clean Air Act:

This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depleters.
This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

2-Mercaptobenzimidazole is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:

None of the chemicals in this product are listed. European/International Regulations

European Labeling in Accordance with EC
Directives Hazard Symbols: XI

Risk Phrases:
R 36/38 Irritating to eyes and skin.
Safety Phrases:

S 24/25 Avoid contact with skin and eyes. WGK
(Water Danger/Protection)

CAS# 583-39-1: 2
United Kingdom Occupational Exposure Limits
Canada
CAS# 583-39-1 is listed on Canada's DSL/NDSL List.
This product has a WHMIS classification of D2B.

CAS# 583-39-1 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits

16 ADDITIONAL INFORMATION

MSDS Creation Date: 11/16/1998 Revision #1 Date: 18/03/2001

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.