SAFETY DATA SHEET

1. IDENTIFICATION

Product name:	2-Mercaptobenzothiazole
Company:	HENAN KAILUN CHEMICAL CO.,LTD.
Address:	LIJIANG EAST RD, HUAXIAN INDUSTRIAL AGGLOMERATION AREA, HENAN, CHINA
Responsible Department:	Sales Department
Telephone:	+86-18567812865
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2. HAZARDS IDENTIFICATION

2. HAZARDS IDENTIFICATION	
Classification of the substance or m	lixture
PHYSICAL HAZARDS	Not classified
HEALTH HAZARDS	
Skin sensitization	Category 1
Carcinogenicity	Category 2
ENVIRONMENTAL HAZARDS	
Acute aquatic hazard	Category 1
Long-term aquatic hazard	Category 1
Label elements	
Pictograms or hazard symbols	
Signal word	Warning
Hazard statements	May cause an allergic skin reaction
	Suspected of causing cancer
	Very toxic to aquatic life
	Very toxic to aquatic life with long lasting effects
Precautionary statements	
[Prevention]	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood. Avoid
	breathing dust, fume, mist, vapors or spray.
	Avoid release to the environment.
	Contaminated work clothing should not be allowed out of the workplace. Wear
	protective gloves, protective clothing, face protection.
[Response]	F ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Take off
	contaminated clothing. And wash it before reuse.
	IF exposed or concerned: Get medical advice or attention.
	Collect spillage.
[Storage]	Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national
	regulations.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	2-Mercaptobenzothiazole
Percent:	>99.0%(HPLC)
CAS RN:	149-30-4
Synonyms:	MBT
Chemical Formula:	C7H5NS2

tight goggles.

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plentyof soap and water. Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if presentand easy to do. Get medical advice/attention.
Ingestion:	Get medical advice/attention.Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves andair-

5. FIRE-FIGHTING MEASURES

. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from Tak	e care as it may decompose upon combustion or in high temperatures to
the chemical:	generate poisonous fume.
Precautions for firefighters:	Fire-extinguishing work is done from the windward and the suitable
_	fire-extinguishing method according to the surrounding situation is used.
	Uninvolved persons should evacuate to a safe place. In case of fire in the
	surroundings: Remove movable containers if safe to do so.
Special protective equipment	When extinguishing fire, be sure to wear personal protective equipment
for firefighters:	NB ^I
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6. ACCIDENTAL RELEASE MEASURES

0. ACCIDENTAL RELEASE WEASON	
Personal precautions,	Use personal protective equipment. Keep people away from and upwind of spill/leak.
protective equipment and	Entry to non-involved personnel should be controlled around the leakagearea by roping off,
emergency procedures:	etc.
Environmental precautions:	Be careful not to let it flow into rivers, etc., since adverse effects on the
	environment are concerned.
Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or
containment and cleaningup:	collected material should be promptly disposed of, in accordance withappropriate laws and
	regulations.
7. HANDLING AND STORAGE	
Precautions for safe handling	
Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective
	equipment. Prevent dispersion of dust. Wash hands and face thoroughly after
	handling.
	Use a closed system if possible. Use a local exhaust if dust or aerosol will begenerated.
Advice on safe handling:	Avoid all contact!
Conditions for safe storage, including anyincompatibilities	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store locked up.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

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Engineering controls:	Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. U
	ropriate government standards and followlocal and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.
. PHYSICAL AND CHEMICAL PR	OPERTIES
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Slightly pale yellow
Odour:	Pungent
pH:	No data available
Melting point/freezing point:	180°C
Boiling point/range:	No data available
Flash point:	No data available
Flammability or explosive	
limits:	
Lower:	15%
Upper:	No data available
Relative density:	No data available
-	
Solubility(ies):	Insoluble
[Water]	Insoluble
[Other solvents] Soluble:	Acetone, Glacial acetic acid
	Ether, Alcohols, Benzene, Toluene, Acetic acid
Slightly soluble:	Carbon tetrachloride
Very slightly soluble:	2.41
Log Pow:	2.41 628°C
Autoignition temperature:	028 C
0. STABILITY AND REACTIVITY	
Chemical stability:	Stable under proper conditions.
Possibility of hazardous	No special reactivity has been reported.
reactions:	
Incompatible materials:	Oxidizing agents
Hazardous decomposition	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Sulfur oxides
products:	
1.TOXICOLOGICAL INFORMAT	
Acute Toxicity:	skn-rbt LD50:>7940 mg/kg ihl-
~ 1 ~	rat LC50:>1270 mg/m ³ /4Hipr-
	rat LD50: 300 mg/kg
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	cyt-ham-ovr 373500 ug/L (+S9)
	sce-ham-ovr 351 mg/L
Carcinogenicity:	orl-rat TDLo:195 g/kg/2Y-I
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo:20227 mg/kg (multigeneration)
RTECS Number:	DL6475000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	48h LC50:8.4 ppm (Oryzias latipes) 96h
	LC50:>2.8 mg/L (Oryzias latipes)
Crustacea:	48h EC50:0.7 mg/L (Daphnia magna)
Algae:	72h EC50:0.5 mg/L (Selenastrum capricornutum)
Persistence / degradability:	2.5 % (by BOD) , 0 % (by UV-VIS)
Bioaccumulative	<0.8 (conc. 0.1 ppm) , <8 (conc. 0.01 ppm)
potential(BCF):	
Mobility in soil	
Log Pow:	2.41
Soil adsorption (Koc):	1600
Henry's Law (PaM ³/mol):	3.6 x 10 ⁻³

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	9: Miscellaneous dangerous goods.
UN-No:	3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Packing group:	
Marine pollutant	γ

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26,2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

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