

# MATERIAL SAFETY DATA SHEET (MSDS)

# **SECTION 1: Identification**

1.1	Product identifiers	
	Product Name :	2-Mercapto-5-methoxybenzimidazole
	Cat No.:	B20570
	CAS No. :	37052-78-1
1.2	Relevant identified uses of th	e substance or mixture and uses advised against
	Recommended uses :	Laboratory chemicals
	Uses advised against:	Food, drug, pesticide or biocidal product use.
1.3	Details of the supplier of the	safety data sheet
	Company :	Krishna Solvechem Limited. B/503, Sahayog, S. V. Road, Kandivali (West), Mumbai – 400067. India.
	Telephone :	+91-22-6123 0222
	Email :	exports@kscl.co.in
1.4	Emergency telephone numbe	r
	Emergency Phone :	+91-8657457330
	55.03	ION 2. Horouds identification
2.4		ION 2: Hazards identification
2.1	<u>Classification</u>	
	This chemical is considered h (29 CFR 1910.1200)	azardous by the 2012 OSHA Hazard Communication Standard
	Acute oral toxicity	(Category 4)
	Skin Sensitization	(Category 1)
	Specific target organ toxicity	
2.2	Label elements	
	Pictogram :	

Signal wordWarningHazard statement (s)Cause an allergic skin reaction



	Harmful if swallowed
Precautionary	
statement (s)	
Prevention	
	Wash face, hands and any exposed skin thoroughly after
	handling Wear protective gloves/protective clothing/eye
	protection/face protection
	Do not eat, drink or smoke when using this product
	Avoid breathing dust/fume/gas/mist/vapors/spray
	Use only outdoors or in a well-ventilated area
	Contaminated work clothing should not be allowed
	out of the workplace
	Inhalation :
	IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing Call a POISON CENTER or
	doctor/physician if you feel unwell
	IF ON SKIN (or hair):
	If skin irritation occurs: Get medical advice/attention
	IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water/shower
	Wash contaminated clothing before reuse
	Eyes:
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing If eye irritation persists: Get medical advice/attentior
	Ingestion:
	IF SWALLOWED: Call a POISON CENTER or doctor/physician
	you feel unwell. Rinse mouth
	Storage:
	Store locked up Store in a well-ventilated place.
	Keep container tightly closed



Disposal:

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise Harmful to aquatic life with long lasting effects classified (HNOC) **SECTION 3: Composition / information on ingredients** 3.1 Component CAS-No Weight % 1,3-Dihydro-5-methoxy-2H-37052-78-1 >95 benzimidazole-2-thione **SECTION 4: First aid measures** 4.1 **Description of first aid measures** General Advice: If symptoms persist, call a physician. If inhalation : Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Clean mouth with water and drink afterwards plenty of water. Ingestion : 4.2 Most important symptoms Inhalation of high vapor concentrations may cause symptoms and effects : like headache, dizziness, tiredness, nausea and vomiting 4.3 Notes to Physician : Treat symptomatically

# **SECTION 5: Firefighting effects**

5.1	Extinguishing media			
	Suitable extinguishing media :	Water spray, carbon dioxide (CO2), dry chemical, alcohol- resistant foam.		
	Unsuitable Extinguishing Media: :	No information available		
5.2	Flash Point : Method :	No information available No information available		



	Autoignition Temperature: Explosion Limits:	No information	available		
	Upper	No data availab	le		
	Lower	No data availab	ole		
	Sensitivity to Mechanical Impact	No information	available		
	Sensitivity to Static Discharge	No information	available		
	Specific Hazards Arising from the Chemical :	Keep product a of ignition	nd empty contair	er away from h	eat and sources
	Hazardous Combustion Products :	Carbon monoxi (NOx). Sulfur ox	de (CO). Carbon c ides	lioxide (CO2). N	itrogen oxides
5.4	Protective Equipment and Precautions for Firefighters:	•	vear self-containe nd, MSHA/NIOSH gear.	• • •	
	NFPA:	Health	Flammability	Instability	Physical hazards
		2	1	0	N/A

# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation

## 6.2 Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

## 6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.



7.2	Conditions for safe storage
-----	-----------------------------

Keep containers tightly closed in a dry, cool and well-ventilated place.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

## 8.2 Exposure controls

#### Personal protective equipment -

Eye / Face protection

Tight sealing safety goggles.

## Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice..

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a) Appearance	Beige solid powder
b) Odour	Odorless
c) Odour Threshold	No information available
d) pH	5.7 10 g/l slurry in H2O
e) Melting point / freezing point	255 - 262 °C / 491 - 503.6 °F
f) Initial boiling point and	No information available



boiling range	
g) Flash point	No information available
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	No information available
l) Vapour density	Not applicable
m) Specific Gravity	No information available
n) Solubility	Insoluble in water
o) Partition coefficient: n	No data available
octanol/water	
p) Auto-ignition	No information available
temperature	
q) Decomposition	No information available
temperature	
r) Viscosity	No information available
s) Molecular formula	C8 H8 N2 O S
t) Molecular Weight	180.23

# SECTION 10: Stability and Reactivity

10.1	Reactive Hazard :	None known, based on information available
10.2	Chemical stability :	Stable under normal conditions.
10.3	Possibility of hazardous reactions :	None under normal processing.
10.4	Conditions to avoid :	Excess heat. Incompatible products. Avoid dust formation
10.5	Incompatible materials:	Strong oxidizing agents
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), sulfur oxides
10.7	Hazardous Polymerization	Hazardous polymerization does not occur



# **SECTION 11: Toxicological information**

11.1						
Information on toxicolog	gical effects					
Acute toxicity:			<b>.</b>			
Product Information:			No acute	e toxicity inform	nation is avail	able for this
product Component Information						
Toxicologically Synergist	No infor	mation availal	hle			
Delayed and imme		ts as woll a				
Delayed and minit				inects nom sn	ort and long-	
Irritation :			No infor	mation availab	ole	
Sensitization:			No infor	mation availab	ble	
Carsinggonisity			The tabl	e below indica	taa whathar a	ach aganay h
Carcinogenicity :				redient as a ca		ach agency h
Component	CAS-No	IARC	NTP		OSHA	Mexico
1,3-Dihydro-5-methoxy	78-77-3	Not	Not	Not	Not listed	Not listed
-2H-benzimidazole-2-t	/0// 5	listed	listed	listed	Not listed	Notlisted
hione						
Mutagenic Effects	:		No information available. No information available. No information available.			
Reproductive Effe	cts:					
Developmental Ef	fects :					
Teratogenicity:			No information available.			
STOT - single expo	sure :		None known			
STOT - repeated ex	xposure:		None known			
Aspiration hazard	:		No information available.			
Symptoms / effec delayed:	ts,both acu	te and	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nause and vomiting			
Endocrine Disrupt	or Informat	ion :	No inform	ation available		
Other Adverse Effe	ects :		The toxico investigate	logical properted.	ies have not l	been fully



# **SECTION 12: Ecological information**

# 12.1

# **Ecotoxicity:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

12.2	Persistence and degradability:	Insoluble in water
	Bioaccumulation/ Accumulation	No information available
12.3	Mobility:	Is not likely mobile in the environment due its low water solubility.

# **SECTION 13: Disposal considerations**

# **13.1 Waste treatment methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	SECTION 14: Transport information			
14.1	DOT :	Not regulated		
14.2	TDG :	Not regulated		
14.3	IATA :	Not regulated		
14.4	IMDG :	Not regulated		

# **SECTION 15: Regulatory information**

# **15.1 United states of America Inventory:**

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
1,3-Dihydro-5-	37052-	_	-	-
methoxy-2H-benzim	78-1			
idazole-2-thione				

# Legend:



TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed
TSCA 12(b) - Notices of Export Not applicable

# International Inventories:

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
1,3-Dihydro-5- methoxy-2H- benzim idazole- 2-thione	37052- 78-1	-	-	253-326-2	-	-	-	-	KE- 23299

# **U.S. Federal Regulations**

SARA 313

SARA 311/312 Hazard Categories

**CWA (Clean Water Act)** 

Clean Air Act

**OSHA** - Occupational Safety and Health Administration

## CERCLA

See section 2 for more information

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

This product does not contain any Proposition 65

chemicals.

# 15.2 U.S. State Right-to-Know Regulations:

**California Proposition 65** 

Not applicable

# U.S. Department of Transportation

Reportable Quantity (RQ):NDOT Marine PollutantNDOT Severe Marine PollutantN



**U.S. Department of Homeland** - This product does not contain the any DHS Chemicals. **Security** 

## **Other International Regulations**

Mexico – Grade

No information available

# **SECTION 16: Other information**

L6.1	Prepared By:	Regulatory affairs					
		Krishna Solvechem Ltd					
	Email:	exports@kscl.co.in					
	Revision Date:	10-Mar-2023					
	Print Date:	10-Mar-2023					
	Revision Summary:	This document has been updated to comply with the US OSH. HazCom 2012 Standard replacing the current legislation under29 C F R 1910.1200 to align with the Globally Harmonized System ofClassification and Labeling of Chemicals (GHS).					

# 16.2 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.