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Mercuric Thiocyanate CAS No 592-85-8

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Mercuric Thiocyanate
	CAS-No.	:	592-85-8
1.2	Relevant identified uses o	f th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the Company		safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
1.4	Emergency telephone nu Emergency Phone #		er +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310 Specific target organ toxicity - repeated exposure (Category 2), H373 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word

Hazard statement(s)	
H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/ protective clothing.
P301 + P330 + P331 + P310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately
	call a POISON CENTER or doctor/ physician.
P302 + P352 + P310	IF ON SKIN: Wash with plenty of water. Immediately call a POISON
	CENTER or doctor/ physician.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. Immediately call a POISON CENTER or doctor/ physician.
Supplemental Hazard information	on (EU)
EUH032	Contact with acids liberates very toxic gas.

Contact with acids liberates very toxic gas.

2.3 Other hazards

3.1

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Substances	
Synonyms	: Mercuric thiocyanate
Formula	: C _{2HgN2S2}
Molecular weight	: 316,75 g/mol
CAS-No.	: 592-85-8
EC-No.	: 209-773-0
Index-No.	: 080-002-00-6

Hazardous ingredients according to Regulation (EC) No 1272/2008 Classification Component

Mercurv dithiocvanate

ercury unmocyanale			
CAS-No. EC-No.	592-85-8 209-773-0	Acute Tox. 2; Acute Tox. 1; STOT RE 2; Aquatic Acute 1;	<= 100 %
Index-No.	080-002-00-6	Aquatic Chronic 1; H300, H330, H310, H373, H400, H410	
		Concentration limits: >= 0,1 %: STOT RE 2, H373 M-Factor - Aquatic Acute: 100	;

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Concentration

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry powder

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Mercury/mercury oxides.

5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.

Light sensitive. Moisture sensitive. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 165 °C - dec.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	120 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	3,71 g/cm3 at 25 °C

	n)	Water solubility	No data available		
	0)	Partition coefficient: n- octanol/water	No data available		
	p)	Auto-ignition temperature	No data available		
	q)	Decomposition temperature	> 110 °C -		
	r)	Viscosity	No data available		
	s)	Explosive properties	No data available		
	t)	Oxidizing properties	No data available		
9.2		ner safety information data available			
SEC	ΓΙΟΝ	10: Stability and reactivity	ty		
10.1	1 Reactivity Contact with acids liberates very toxic gas.				
10.2	2 Chemical stability Stable under recommended storage conditions.				
10.3	B Possibility of hazardous reactions No data available				
10.4	Avoid moisture. Light.				
10.5	5 Incompatible materials Strong oxidizing agents, Nitric acid, Peroxides, Chlorates				
10.6	Hazardous decomposition products Other decomposition products - No data available				
	In t	he event of fire: see section	n 5		
SEC	SECTION 11: Toxicological information				
11.1	11.1 Information on toxicological effects				
	Acute toxicity LD50 Oral - Rat - 46 mg/kg				
	Inhalation: Irritating to respiratory system.				
	Skin corrosion/irritation No data available				
	Serious eye damage/eye irritation No data available				
		spiratory or skin sensitis data available	ation		
		rm cell mutagenicity data available			
	Carcinogenicity				
	IAF	RC: 3 - Group 3: Not	classifiable as to its carcinogenicity to humans (Mercury dithiocyanate)		

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

May cause nervous system disturbances., Exposure to mercury compounds can cause:, Irritation, Abdominal pain, Nausea, Vomiting, Diarrhoea, cardiovascular collapse with hypotension, renal failure

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 0,15 mg/l - 9	96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0,0052 mg/l - 48 h	
Toxicity to algae	IC50 - Ankistrodesmus falcatus - 0,162 mg/l - 96 h	

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and

toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN numbe ADR/RID: 1	-	IMDG: 1646	IATA: 1646
14.2		shipping name MERCURY THIOCYAI MERCURY THIOCYAI Mercury thiocyanate		
14.3	Transport I ADR/RID: 6	nazard class(es) 5.1	IMDG: 6.1	IATA: 6.1

14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: yes	IMDG Marine pollutant: yes	IATA: no
14.6	Special precautions for user		

No data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Mercury dithiocyanate CAS-No.: 592-85-8 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Shall not be placed on the market, or used, as a substance or in mixtures See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Mercury dithiocyanate CAS-No.: 592-85-8 Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Countries for which no notification is required: Please refer to PIC circular at www.pic.int/

Mercury dithiocyanate CAS-No.: 592-85-8 Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Countries for which no notification is required: Please refer to PIC circular at www.pic.int/

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15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

EUH032 H300 H300 + H310 +	Contact with acids liberates very toxic gas. Fatal if swallowed. Fatal if swallowed, in contact with skin or if inhaled
H330	
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.