

2-MERCAPTOIMIDAZOLINE**1148**

October 1994

CAS No: 96-45-7
 RTECS No: NI9625000
 EC No: 613-039-00-9

2-Imidazolidinethione
 Ethylene thiourea
 ETU
 $C_3H_6N_2S$
 Molecular mass: 102.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION			

EXPOSURE		PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
Inhalation		Local exhaust or breathing protection.	Refer for medical attention.
Skin		Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes		Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: self-contained breathing apparatus.	T Symbol R: 61-22 S: 53-45 Note: E

EMERGENCY RESPONSE	SAFE STORAGE
	Keep in a well-ventilated room.

IMPORTANT DATA

Physical State; Appearance

WHITE TO PALE GREEN CRYSTALS.

Chemical dangers

The substance decomposes on heating or on burning producing toxic and irritating fumes including nitrogen oxides and sulfur oxides.

Occupational exposure limits

TLV not established.

MAK: Carcinogen category: 3B; (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation and through the skin.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.

Effects of long-term or repeated exposure

The substance may have effects on the thyroid and liver, resulting in impaired functions. Animal tests show that this substance possibly causes malformations in human babies.

PHYSICAL PROPERTIES

Melting point: 203-204°C

Solubility in water, g/100 ml at 30°C: 2 (moderate)

Flash point: 252°C

Octanol/water partition coefficient as log Pow: -0.66 (calculated)

ENVIRONMENTAL DATA

NOTES

Depending on the degree of exposure, periodic medical examination is suggested.

NA-22, NA.22.D, Pennac CRA, Rhodanin S62, Robac 22, Sancellor 22, Sodium-22 Neoprene accelerator, Vulkacit NPV/C, Warecure C are trade names.

Card has been partly updated in April 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible