

# 1-DECANETHIOL

0035  
April 2004

CAS No: 143-10-2

Decyl mercaptan  
 $C_{10}H_{21}SH$   
Molecular mass: 174.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames, NO sparks, and NO smoking.	Foam, carbon dioxide, powder.
<b>EXPLOSION</b>	Above 98/C explosive vapour/air mixtures may be formed.	Above 98/C use a closed system, ventilation, and explosion-proof electrical equipment.	
<b>EXPOSURE</b>			
<b>Inhalation</b>	Dizziness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
<b>Skin</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Eyes</b>	Severe deep burns. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Nausea. Vomiting. Dizziness. Drowsiness. Headache. Weakness.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

## SPILLAGE DISPOSAL

Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Personal protection: filter respirator for organic gases and vapours.

## PACKAGING & LABELLING

## EMERGENCY RESPONSE

NFPA Code: H2; F2; R0

## STORAGE

Separated from strong oxidants, strong bases.

## IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

**Chemical dangers**

The substance decomposes on burning producing toxic gases including sulfur dioxide (see ICSC 0074). Reacts with strong bases and strong oxidants.

**Occupational exposure limits**

TLV not established.  
MAK not established.

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol, and by ingestion.

**Inhalation risk**

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20/C.

**Effects of short-term exposure**

The substance is corrosive to the eyes. The substance may cause effects on the central nervous system.

## PHYSICAL PROPERTIES

Boiling point: 241/C

Melting point: -26/C

Relative density (water = 1): 0.84

Solubility in water: none

Vapour pressure, Pa at 20/C: <10

Relative vapour density (air = 1): 6.0

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.00

Flash point: 98/C

## ENVIRONMENTAL DATA

## NOTES

## ADDITIONAL INFORMATION

## LEGAL NOTICE

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