

n-HEXANE**0279**
April 2000CAS No: 110-54-3
RTECS No: MN9275000
UN No: 1208
EC No: 601-037-00-0Hexyl hydride
 C_6H_{14}
Molecular mass: 86.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
EXPLOSION	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE			
Inhalation	Dizziness. Drowsiness. Dullness. Headache. Nausea. Weakness. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Dry skin. Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Eyes	Redness. Pain.	Safety goggles, face shield 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.
Ingestion	Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention.

SPILLAGE DISPOSAL

Consult an expert! Remove all ignition sources. 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. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.

PACKAGING & LABELLINGF Symbol
Xn Symbol
N Symbol
R: 11-38-48/20-62-65-67-51/53
S: (2-)9-16-29-33-36/37-61-62
UN Hazard Class: 3
UN Pack Group: II**EMERGENCY RESPONSE**Transport Emergency Card: TEC (R)-30S1208
NFPA Code: H 1; F 3; R 0**SAFE STORAGE**

Fireproof. Separated from strong oxidants. Well closed.

IMPORTANT DATA

Physical State; Appearance

VOLATILE COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Physical dangers

The vapour is heavier than air and may travel along the ground; distant ignition possible.

Chemical dangers

Reacts with strong oxidants causing fire and explosion hazard. Attacks some plastics, rubber and coatings.

Occupational exposure limits

TLV: 50 ppm, 176 mg/m³ as TWA; (skin); BEI issued; (ACGIH 2004).

MAK: 50 ppm, 180 mg/m³; Peak limitation category: II(8);

Pregnancy risk group: C; (DFG 2004).

Routes of exposure

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

Inhalation risk

A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20/C.

Effects of short-term exposure

The substance irritates the skin. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Exposure at high levels could cause lowering of consciousness.

Effects of long-term or repeated exposure

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system and especially peripheral nervous system, resulting in polyneuropathy. Animal tests show that this substance possibly causes toxic effects upon human reproduction.

PHYSICAL PROPERTIES

Boiling point: 69/C

Melting point: -95/C

Relative density (water = 1): 0.7

Solubility in water, g/100 ml at 20/C: 0.0013

Vapour pressure, kPa at 20/C: 17

Relative vapour density (air = 1): 3.0

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.3

Flash point: -22/C c.c.

Auto-ignition temperature: 225/C

Explosive limits, vol% in air: 1.1-7.5

Octanol/water partition coefficient as log Pow: 3.9

ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

NOTES

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

Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information