n-HEPTANE

0657
November 1997

CAS No: 142-82-5
RTECS No: MI7700000
UN No: 1206
EC No: 601-008-00-2

C_7H_{16} / $CH_3(CH_2)_5CH_3$
Molecular mass: 100.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, foam, carbon dioxide. NO water.
EXPLOSION	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE			
Inhalation	Dullness. Headache.	Ventilation.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Skin	Dry skin.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention. Wear protective gloves when administering first aid.
Eyes	Redness. 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.
Ingestion	Abdominal cramps. Burning sensation. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: filter respirator for organic gases and vapours.	**EU classification** F Symbol Xn Symbol N Symbol R: 11-38-50/53-65-67 S: (2-)9-16-29-33-60-61-62 Note: C **UN classification** UN Hazard Class: 3 UN Pack Group: II

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-30GF1-I+II NFPA Code: H1; F3; R0	Fireproof. Separated from strong oxidants. Store in an area without drain or sewer access.

Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission © IPCS 2006

SEE IMPORTANT INFORMATION ON THE BACK.

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. As a result of flow, agitation, etc., electrostatic charges can be generated.

Chemical dangers
Reacts violently with strong oxidants. Attacks many plastics.

Occupational exposure limits
TLV: 400 ppm as TWA, 500 ppm as STEL; (ACGIH 2004).
EU OEL: 500 ppm, 2085 mg/m^3 as TWA (EU 2000).

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 will be reached rather slowly on evaporation of this substance at 20/C.

Effects of short-term exposure
The substance is irritating to the eyes and the skin. The vapour irritates the eyes, the skin and the respiratory tract. If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system.

Effects of long-term or repeated exposure
The liquid defats the skin. The substance may have effects on the liver, resulting in impaired functions.

PHYSICAL PROPERTIES

Boiling point: 98/C
Melting point: -91/C
Relative density (water = 1): 0.68
Solubility in water: none
Vapour pressure, kPa at 20/C: 4.6
Relative vapour density (air = 1): 3.46
Flash point: -4/C
Auto-ignition temperature: 285/C
Explosive limits, vol% in air: 1.1-6.7
Octanol/water partition coefficient as log Pow: 4.66

ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish. It is strongly advised that this substance does not enter the environment.

NOTES

The odour warning when the exposure limit value is exceeded is insufficient.
Skellysolve-C is a trade name.
Card has been partly updated in October 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.
Card has been partially updated in August 2007: see Fire fighting, Storage, Occupational Exposure Limits, Environmental Data.
Card has been partially updated in January 2008: see Occupational Exposure Limits.

ADDITIONAL INFORMATION

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