



MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTITY

CHEMICAL NAME : Pentane

CHEMICAL CLASSIFICATION:

SYNONYMES : Amyl Hydride

TRADE NAME: Pentane

FORMULA: C₅H₁₂

C.A.S. NO. 109-66-0

U.N. NO: 1265

HAZCHEM CODE: 3

REGULATED IDENTIFICATION : Pentane UNNA: 1265 PG: II

SHIPPING NAME CODES/ LABEL : NA

HAZARDOUS WASTE I.D. NO. : NA

HAZARDOUS INGREDIENTS :

C.A.S. No. :

1. Pentane

109-66-0

2. PHYSICAL AND CHEMICAL DATA

BOILING POINT (°C): 36.1

PHYSICAL STATE:
Liquid.

STATE:

APPEARANCE:
Colourless, mild

MELTING / FREEZING POINT(°C): -130°C (-202°F)

VAPOUR PRESSURE @ 35 °C mm/Hg: 13-15 psi

Odour: Gasoline

VAPOUR DENSITY (AIR= 1): 2.48

SOLUBILITY IN H₂O @ 25 °C : 9.9 g in 100 kg water

SPECIFIC GRAVITY (H₂O=1): 0.63

PH: NA

3. FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY:

LEL : 1.5 %

UEL : 7.8 %

Flammable

TDG FLAMMABILITY:
NA

FLASH POINT (°C): <-40

AUTO IGNITION TEMP(°C): 273



MSDS: PENTANE

EXPLOSION SENSITIVITY TO IMPACT: NA	EXPLOSION SENSITIVITY TO STATIC ELECTRICITY: NA	HAZARDOUS COMBUSTION PRODUCTS : NA		
HAZARDOUS POLIMERISATION : Will not occur.	EXPLOSIVE MATERIAL: NA	CORROSSIVE MATERIAL: Non-corrosive in presence of glass.		
FLAMMABLE MATERIAL :	OXIDISER : NA	OTHERS : NA		
PYROPHORIC : No		ORGANIC PEROXIDE : NA		
4. REACTIVITY DATA				
CHEMICAL STABILITY : Stable				
INCOMPATIBILITY WITH OTHER MATERIAL: Reactive with oxidizing agents.				
REACTIVITY:				
HAZARDOUS REACTION PRODUCTS :				
5. HEALTH HAZARD DATA				
ROUTES OF ENTRY: Absorbed through skin. Eye contact. Inhalation. Ingestion.				
EFFECTS OF EXPOSURE / SYMPTOMS:				
EMERGENCY TREATMENT: Flush eyes and skin with plenty of water and get medical aid.				
TLV (ACGIH) : 750 PPM mg/m3		STEL : 600 PPM mg/m3		
PERMISSIBLE EXPOSURE LIMITS LD 50: None PPM mg/m3		ODOUR THRESHOLD LD50 : None PPM mg/m3		
NFPA HAZARD RATING	HEALTH: 1	FLAMABILITY : 4	STABILITY: NA	SPECIAL: NA
6. PREVENTIVE MEASURES				
PERSONAL PROTECTIVE EQUIPMENTS: Gloves. Lab coat. Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator				



When ventilation is inadequate. Splash goggles.

HANDLING AND STORAGE PRECAUTION: Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not

Breathe gas/fumes/ vapour/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory

Equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and

Eyes. Keep away from incompatibles such as oxidizing agents.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and

Sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 25°C (77°F).

7. EMERGENCY AND FIRST- AID MESURES

FIRE	<p>FIRE EXTINGUISHING MEDIA: Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.</p> <p>SPECIAL PROCEDURE: EXTREMELY FLAMMABLE. Vapour may travel considerable distance to source of ignition and flash back.</p> <p>UNUSUAL HAZARDS: NA</p>
EXPOSURE	<p>FIRST AID MEASURES: Eye : Flush eye with plenty of water for at least 30 minutes Skin: Get medical aid , Flush skin with plenty of water for at least 30 minutes Ingestion: If swallowed get medical aid. Inhalation: Remove from exposure and move to fresh air immediately</p> <p>ANTIDOTES / DOSAGES : NA</p>
SPILLS	<p>STEPS TO BE TAKEN :</p> <ul style="list-style-type: none"> • Eliminate sources of ignition • Wear suitable protective equipment • Avoid contact with liquid and vapor. • This product is moderately toxic to face.



GAIL (India) Limited

Gas & Beyond

MSDS: PENTANE

- Avoid run off to water ways and sewers.
- Small spills can be flushed with large amount of water.
- Large spills should be collected for disposal.

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations.