

3,5,5-TRIMETHYLHEXANOL

0608
April 1997

CAS No: 3452-97-9
RTECS No:
UN No:
EC No:

3,5,5-Trimethylhexylalcohol
Isononyl alcohol
C₉H₂₀O
Molecular mass: 144.25

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames. NO contact with hot surfaces.	Foam, powder, carbon dioxide.
EXPLOSION	Above 93°C explosive vapour/air mixtures may be formed.	Above 93°C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.

EXPOSURE			
Inhalation	Cough. Sore throat.	Ventilation.	Fresh air, rest. Artificial respiration if indicated.
Skin	Redness. Roughness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety goggles, face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
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 let this chemical enter the environment (extra personal protection: filter respirator for organic gases and vapours).	Symbol R: S:

EMERGENCY RESPONSE	STORAGE
NFPA Code: H2; F2; R0;	Separated from incompatible material. See Chemical Dangers. Ventilation along the floor.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Physical Dangers

The vapour is heavier than air.

Chemical Dangers

Reacts with strong oxidants, inorganic acids, aldehydes, alkene oxides, acid anhydrides. Reacts with rubber, PVC.

Occupational Exposure Limits

TLV not established.

Routes of Exposure

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

Inhalation Risk

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.

Effects of Short-term Exposure

The substance irritates the eyes and the skin. The vapour irritates the eyes, the skin and the respiratory tract.

Effects of Long-term or Repeated Exposure

The substance may have effects on the liver and kidneys.

PHYSICAL PROPERTIES

Boiling point: 193-202°C

Melting point: -70°C

Relative density (water = 1): 0.83

Solubility in water, g/100 ml at 20°C: none

Vapour pressure, Pa at 20°C: 30

Relative vapour density (air = 1): 5.0

Flash point: 93°C o.c.

ENVIRONMENTAL DATA

This substance may be hazardous to the environment; special attention should be given to water.

NOTES

Use of alcoholic beverages enhances the harmful effect.

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