

ALLYL ALCOHOL

0095
April 2000

CAS No: 107-18-6
RTECS No: BA5075000
UN No: 1098
EC No: 603-015-00-6

Vinyl carbinol
 Propenyl alcohol
 2-Propen-1-ol
 3-Hydroxypropene
 $C_3H_6O / CH_2=CHCH_2OH$
 Molecular mass: 58.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, alcohol-resistant foam, water in large amounts, carbon dioxide.
EXPLOSION	Above 21/C explosive vapour/air mixtures may be formed.	Above 21/C use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE! PREVENT GENERATION OF MISTS!	
Inhalation	Headache. Nausea. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest.
Skin	MAY BE ABSORBED! Aching. Pain. Blisters.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain. Blurred vision. Temporary loss of vision. Severe deep burns. Sensitivity to light.	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. Unconsciousness.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Give plenty of water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
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. Personal protection: complete protective clothing including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	T Symbol N Symbol R: 10-23/24/25-36/37/38-50 S: (1/2-)36/37/39-38-45-61 UN Hazard Class: 6.1 UN Subsidiary Risks: 3 UN Pack Group: I Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-61S1098 NFPA Code: H3; F3; R0	Fireproof. Separated from strong oxidants, food and feedstuffs.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID, WITH PUNGENT ODOUR.

Chemical dangers

Reacts with carbon tetrachloride, nitric acid, chlorosulphonic acid causing fire and explosion hazard.

Occupational exposure limits

TLV: 0.5 ppm as TWA; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2004).
MAK: skin absorption (H); Carcinogen category: 3B; (DFG 2004).

Routes of exposure

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

Inhalation risk

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

Effects of short-term exposure

Lachrymation. The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the muscles, resulting in local spasm and aching. The effects may be delayed. The substance may cause effects on the kidneys and liver.

PHYSICAL PROPERTIES

Boiling point: 97/C
Melting point: -129/C
Relative density (water = 1): 0.9
Solubility in water: miscible
Vapour pressure, kPa at 20/C: 2.5
Relative vapour density (air = 1): 2.0

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.03
Flash point: 21/C c.c.
Auto-ignition temperature: 378/C
Explosive limits, vol% in air: 2.5-18.0
Octanol/water partition coefficient as log Pow: 0.17

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms.

NOTES

Depending on the degree of exposure, periodic medical examination is suggested.
The odour warning when the exposure limit value is exceeded is insufficient.
Card has been partly updated in April 2005. See section Occupational Exposure Limits.

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