



MATERIAL SAFETY DATA SHEETS

16

Allyl alcohol

1. CHEMICAL IDENTITY

Chemical Name : Allyl alcohol

Chemical Classification: Toxic , Flammable **Trade Name :**

Synonyms: Vinylcarbinol, 2-Propen-1-ol, Propenyl alcohol, 3-Hydroxypropene

Formula : C₃H₆O **CAS No:** 107-18-6 **UN No:** 1098

Regulated Identification

Shipping Name : Allyl alcohol

Hazchem Code : 2WE

Codes / Label : Class 6.1, Toxic, Flammable **Hazardous Waste ID No :** 5

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Allyl alcohol	107-18-6	3	
2		4	

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 97	Physical State: Liquid	Appearance: Colourless
Melting Pt °C: -129	Vapour Pressure @ 35°C mmHg: 23.8 at 25 °C	Odour: Pungent, mustard-like odor.
Vapour Density(Air =1): 2.0	Solubility in water at 30°C g/100ml: Miscible	Others: Soluble in alcohol, ether and chloroform.
Specific Gravity (Water =1): 0.854 at 20 °C		pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability : Yes	LEL: 2.5	Flash Point °C in OC: 32
TDG Flammability: 3	UEL: 18	Flash Point °C in CC: 22

Autoignition Temperature °C : 443 deg C (in air); 348 deg C (in oxygen)

Explosion sensitivity to impact: Stable at ordinary temperature and pressure.

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : When heated, it emits toxic fumes.

Hazardous Polymerization : Will not occur.

Combustible Liquid: Yes	Explosive Material: No	Corrosive Material No
Flammable Material: Yes	Oxidiser : No	Others:
Pyrophoric Material: No	Organic Peroxide : No	

4. REACTIVITY DATA

Chemical Stability : Stable at ordinary temperature and pressure.

Incompatibility with other material : With chlorosulphuric acid, HNO₃, H₂SO₄, oleum, NaOH, diallyl phosphite, PCI₃, tri-n-bromomelamine

Reactivity : Violent reaction with sulphuric acid, alkali+2,4,6-trichloro-1,3,5-triazine or 2,4,6-tris(bromoamino)-1,3,5-triazine.

Hazardous Reaction Products : Reaction with carbon tetrachloride produces explosively unstable halogenated C4 epoxide.

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, skin, ingestion and eyes

Effects of Exposure / Symptoms:

Vapour are quite irritating to eyes, nose and throat. Eye irritation may be accompanied by complaints of photophobia and pain in eyeball. Pain may not begin until 6 hours after exposure. Liquid may cause first and second degree burns of the skin, with blister formation. Underlying part will become swollen and painful and local muscle spasms may occur.

Emergency Treatment :

Inhalation: Remove the victim to fresh air area and administer oxygen.

Skin: Wash the affected area with plenty of water and soap.

Eyes: Flush with plenty of water for 15 min. Wash the affected area with continuous stream of water. Seek medical aid immediately.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

LD50 (oral-rat) mg/kg:	64mg/kg	STEL:	4 ppm (10 mg/m ³) (skin)
LC50 (rat) mg/kg:	0.39 mg/liter/4 hours	Odour Threshold:	0.78 ppm 1.85 mg/m ³
Permissible Exposure Limit:	2 ppm (5 mg/m ³) [skin]	TLV (ACGIH) :	2(skin)

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	4	3	1	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Provide organic vapour canister or air-pack, rubber hand gloves, safety goggles, rubber overclothing.

Handling : Keep in a cool, dry, well ventilated place, away from heat, flame or oxidisers. Wash thoroughly after handling. Wash hands before eating. Use only in a well ventilated area. Ground and bond containers when transferring material.

Storage : Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances.

Precautions : Avoid contact with liquid and vapours.

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media : Dry chemical powder, alcohol foam, CO₂.

Special Procedure : Keep the containers cool by spraying water, if exposed to heat or flame.

Unusual Hazards : Flashback along vapour trail may occur.

EXPOSURE: First Aid Measures:

Inhalation: Remove the victim to fresh air area and administer oxygen.

Skin: Wash the affected area with plenty of water and soap.

Eyes: Flush with plenty of water for 15 min. Wash the affected area with continuous stream of water. Seek medical aid immediately.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or

water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Shut off leaks if without risk. Contain spillage on sand or earth. Wash the surface with water and soap.

Waste Disposal Method: Seal all waste in vapour tight plastic bags for eventual disposal.

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM :	Contact person
MAILING ADDRESS :	in Emergency :
TELEPHONE / TELEX NOS :	Local Bodies involved :
TELEGRAPHIC ADDRESS :	Standard Packing :
OTHERS :	Trem Card Details / Ref :

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