



## MATERIAL SAFETY DATA SHEETS

17

Allyl amine

### 1. CHEMICAL IDENTITY

**Chemical Name :** Allyl amine

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

**Synonyms:** 2-Propen-1-amine, 2-Propenylamine, 3-Amino-1-propene, 3-Aminopropene, 3-Aminopropylene, Monoallylamine

**Formula :** C<sub>3</sub>H<sub>7</sub>N      **CAS No:** 107-11-9      **UN No:** 2334

#### Regulated Identification

**Shipping Name :** Allylamine      **Hazchem Code :** 2WE

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

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
-----------------------	------------	-----------------------	------------

1	Allyl amine	107-11-9	3
2			4

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:** 55-58      **Physical State:** Liquid      **Appearance:** A colorless to light yellow liquid.

**Melting Pt °C:** -88      **Vapour Pressure @ 35°C mmHg:** 242 at 25 °C      **Odour:** A strong ammonia-like odor.

**Vapour Density(Air =1):** 2.0      **Solubility in water at 30°C g/100ml:** Miscible      **Others:** Miscible in alcohol, chloroform, ether.

**Specific Gravity (Water =1 ):** 0.76 at 20 °C      **pH :** Alkaline

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :** Yes      **LEL:** 2.2      **Flash Point °C in OC:** -12

**TDG Flammability:** 3      **UEL:** 22      **Flash Point °C in CC:** -29

**Autoignition Temperature °C :** 374

**Explosion sensitivity to impact:**

**Explosion sensitivity to static Electricity:**

**Hazardous Combustion Products :** Emits toxic fumes of oxides of nitrogen.

**Hazardous Polymerization :**

**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 under normal temperatures and pressures.

**Incompatibility with other material :** Metals, oxidizing agents, acids, amines, halogenated agents, alkalies, chlorine, hypochlorite.

**Reactivity :**

**Hazardous** : Carbon monoxide, oxides of nitrogen, carbon dioxide.

**Reaction Products**

**5. HEALTH HAZARD DATA**

**Routes of entry:** Inhalation, skin, eyes and ingestion

**Effects of Exposure / Symptoms:**

Symptoms include irritation of nose, eyes, and mouth with tearing, runny nose, and sneezing. Can cause excitement, convulsions, and death.

**Emergency Treatment :**

**Inhalation:** Move victim to fresh air and call emergency medical care. Remove and isolate contaminated clothing and shoes at site

**Skin:** In case of contact, flush skin or eyes with water for 15 minutes. Keep victim quiet and maintain normal body temperature. Keep victim under careful watch since effects may be delayed.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do not allow victim to rub or keep eyes closed.

**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.

---

<b>LD50 (oral-rat) mg/kg:</b>	102 mg/kg	<b>STEL:</b>	
<b>LC50 (rat) mg/kg:</b>	0.32 mg/liter (mammal)	<b>Odour Threshold:</b>	
<b>Permissible Exposure Limit:</b>		<b>TLV (ACGIH) :</b>	

---

<b>NFPA Hazard</b>	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Special</b>
<b>Signals</b>	4	3	1	

**6. PREVENTIVE MEASURES**

**Personal Protective Equipment :** For emergency situations, wear a positive pressure, pressure-demand, full facepiece self-contained breathing apparatus (SCBA) or pressure-demand supplied air respirator with escape SCBA and a fully-encapsulating, chemical resistant suit.

**Handling :** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage :** Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from acids.

**Precautions :** Keep locked up and out of the reach of children.

**7. EMERGENCY / FIRST AID MEASURES**

**FIRE:**

**Fire Extinguishing Media :** Use water spray, dry chemical, "alcohol resistant" foam, or carbon dioxide.

**Special Procedure :** Use water spray to keep fire-exposed containers cool. Solid streams of water may be ineffective and spread material.

**Unusual Hazards :** Vapor forms explosive mixtures with air.

---

**EXPOSURE: First Aid Measures:**

**Inhalation:** Move victim to fresh air and call emergency medical care. Remove and isolate contaminated clothing and shoes at site

**Skin:** In case of contact, flush skin or eyes with water for 15 minutes. Keep victim quiet and maintain normal body temperature. Keep victim under careful watch since effects may be delayed.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do not allow victim to rub or keep eyes closed.

**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** : Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Remove all sources of ignition. A vapor suppressing foam may be used to reduce vapors. Water spray can only reduce vapours.

**Waste Disposal Method:****8. ADDITIONAL INFORMATION / REFERENCES****9. MANUFACTURERS / SUPPLIERS DATA**

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

**10. DISCLAIMER**

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/ seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The Government makes no warranties expressed or implied in the respect of the adequacy of this document for any particular purpose.

*End of document*

*Total No. of Pages: 3*