



MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: ALLYL CHLORIDE

CAS Number: 107-05-1

1. IDENTIFICATION:

Product Code : 98070

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Acute toxicity : Category 4 (Harmful if swallowed)

Acute toxicity : Category 4 (Harmful if inhaled)

Acute toxicity : Category 4 (Harmful in contact with skin)

Skin irritation : Category 2 (Causes skin irritation)

Eye irritation : Category 2 (Causes serious eye irritation)

Germ cell mutagenicity : Category 2 (Suspected of causing genetic defects.)

Carcinogenicity : Category 2 (Suspected of causing cancer)

Specific target organ
toxicity - single exposure, Respiratory system : Category 3 (May cause respiratory irritation)Specific target organ
toxicity - repeated
exposure, Nervous system,
Liver, Kidney : Category 2 (May cause damage to organs through prolonged or repeated exposure)Short-term (acute) aquatic
hazard : Category 2 (Very toxic to aquatic life)

Labels elements :

Hazard symbol :



Signal word : Danger



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Hazard statement	Highly flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. : May cause respiratory irritation. : Suspected of causing genetic defects. : Suspected of causing cancer. May cause damage to organs (Nervous system, Liver, Kidney) through prolonged or repeated exposure. Very toxic to aquatic life.
Precautionary statement	
Prevention	: Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Response	: IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a poison center or doctor/physician.
Storage	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Lachrymator.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Allyl Chloride	107-05-1	NLT 98.0%	Yes



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4. FIRST AID MEASURES:

General information	:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	:	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Inhalation	:	
Skin contact	:	Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
Eye contact	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
If swallowed	:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Most important symptoms/effects, acute and delayed	:	The most important known symptoms and effects are described in the labelling.
Indication of immediate medical attention and special treatment needed	:	No data available.

5. FIRE FIGHTING MEASURES:

General information	:	Flammable liquid and vapor.
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	:	Carbon dioxide (CO ₂), Foam, Dry powder
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	:	Carbon oxides Hydrogen chloride gas Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.
Special protective equipment and precautions for firefighters		
Special firefighting procedures	:	Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
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Methods and material for containment and cleaning up	: Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	: Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe the mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.
Storage stability	: Store at 2-8°C in original packing. Keep the container tightly closed away from source of ignition; handle at inert atmosphere. Heat sensitive.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Appropriate engineering controls**

: No data available

Individual protection measures, such as personal protective equipment

General information	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Chemical resistant gloves.
Other	: Wear suitable protective clothing.
Respiratory protection	: Required when vapours/aerosols are generated. Recommended Filter type: Filter type AX
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and



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protective equipment to remove contaminants. Provide eyewash station and safety shower.
Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear, colorless liquid
Odor	: pungent
Solubility	: Miscible in water.
Formula	: C_3H_5Cl
Molecular Weight	: 76.52 g/mol
Density	: 0.938-0.940 g/cm ³ at 25°C
pH	: No data available.
% Volatiles by volume @ 21C (70F)	: No data available.
Boiling Point	: 44 - 46°C
Melting Point	: -130°C
Flash Point	: -32 °C
Vapor Density (Air=1)	: 2.64
Vapor Pressure (mm Hg)	: No data available.
Evaporation Rate (BuAc=1)	: No data available.

10. STABILITY AND REACTIVITY:

Reactivity	: Vapors may form explosive mixture with air.
Chemical stability	: Material is stable under ambient conditions.. Violent reactions possible with: Peroxides, Strong oxidizing agents, Alkali metals, Alkaline earth metals, Zinc, acids
Possibility of hazardous reactions	: Risk of explosion with: sodium, Potassium Violent polymerization may be caused by: iron(III) compounds, boron trifluoride, Aluminum, aluminium chloride, conc. sulfuric acid
Conditions to avoid	: Warming
Incompatible materials	: No data available.
Hazardous decomposition products	: In the event of fire: see section 5



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11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product	: LD 50 Oral - Rat - female - 419 mg/kg
Dermal Product	: 1.100,1 mg/kg
Inhalation Product	: 4 h - 10,1 mg/l - vapor
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Causes skin irritation.
Serious eye damage/eye irritation Product	: Causes serious eye irritation.
Respiratory or skin sensitization Product	: Local lymph node assay (LLNA) - Mouse Result: negative
Carcinogenicity Product	: Suspected of causing cancer.
Germ cell mutagenicity	Suspected of causing genetic defects. Test Type: Genotoxicity in vivo Species: Drosophila melanogaster Application Route: inhalation (vapor) Method: OECD Test Guideline 477 Result: negative
Reproductive toxicity Product	: No data available.
Specific target organ toxicity - single exposure Product	: May cause respiratory irritation. - Respiratory Tract
Specific target organ toxicity - repeated exposure Product	: May cause damage to organs through prolonged or repeated exposure. - Nervous system, Liver, Kidney
Aspiration hazard Product	: No data available..
Other effects	: None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Toxicity to algae	: static test NOEC - Scenedesmus quadricauda (Green algae) - 6,3 mg/l - 8 d
Toxicity to bacteria	: Remarks: (ECHA) (3-chloropropene)



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Chronic hazards to the aquatic environment

Fish Product : semi-static test NOEC - Poecilia reticulata (guppy) - 1,2 mg/l - 14 d

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : aerobic - Exposure time 28 d
Result: 95 % - Readily biodegradable.

Ratio BOD/ThBOD : 25 %

Bioaccumulative potential

Bioconcentration factor (BCF) Product : Cyprinus carpio (Carp) - 42 d at 25 °C - 0,05 mg/l(3-chloropropene)
Bioconcentration factor (BCF): < 5,6 (OECD Test Guideline 305C)

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Environmental hazards
ADR/RID	UN 1100	Allyl Chloride	3 (6.1)	I	Yes
IMDG	UN 1100	Allyl Chloride	3 (6.1)	I	Yes
IATA	UN 1100	Allyl Chloride	3 (6.1)	I	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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