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SAFETY DATA SHEET

ALLYL CHLORIDE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	107-05-1
EC number:	203-457-6
1.2 SYNONYMS	3-Chloro-1-propene, , 1-chloro-2-propene, 3-chloropropylene

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 • Acute toxicity, oral (Category 4) • Skin corrosion/irritation (Category 2) • Serious eye damage/eye irritation (Category 2A) • Sensitisation, respiratory (Category 1) • Sensitisation, skin (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H225:** Highly flammable liquid and Vapour **H351:** Suspected of causing cancer **H341:** Suspected of causing genetic defects **H332:** Harmful if inhaled
	H312: Harmful in contact with skin **H302:** Harmful if swallowed

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	H319: Cause serious eye irritation **H335:** May cause respiratory irritation **H315:** Cause skin irritation **H400:** Very toxic to aquatic life
Precautionary Statements:	**P260:** Do not breath vapor **P210:** Keep away from heat / sparks / open flames / hot surfaces –No smoking **P241:** Use explosion proof ventilating equipment **P280:** Wear protective gloves / protective clothing / eye protection / face protection **P403+P404:** Store in a well-ventilated place. Store in a closed container. **P304+P340:** If Inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. **P303+P361+P353:** Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. **P270:** Do not eat, drink or smoke when using the product **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing **P301+P330+P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. **P273:** Avoid release into the environment.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and potentially severe lung damage in repeated exposure.

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Ingestion:	can cause severe gastrointestinal irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	an cause severe burns, irritation, and allergic reactions,
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	may lead to respiratory issues, including asthma, bronchitis, and other long-term lung damage.
Aggravation of pre-existing conditions :	may aggravate pre-existing respiratory conditions, such as asthma or chronic obstructive pulmonary disease (COPD), and skin conditions like dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 107-05-1 ALLYL CHLORIDE
Identification number(s):	EC number: 203-457-6

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Wash off with soap and plenty of water. Consult a physician.
After eye contact:	Rinse thoroughly with plenty of water for at least 20 minutes and consult a physician.
After swallowing:	Gargle, drink plenty of water and induce vomit. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause severe respiratory irritation, headaches, dizziness, nausea, and skin burns while delayed effects may include liver and kidney damage, as well as potential central nervous system toxicity.
4.3 Indication of any immediate medical attention and special treatment needed:	Make work capacity of the lungs, liver, kidneys work.

SECTION 5: Firefighting measures

5.1 Extinguishing media	dry chemical or carbon dioxide, sand
5.2 Special hazards arising from the substance or mixture	Flammable liquid, the vapor is heavier than air may move away from ignition source. Makes fume and toxic gas when fire and irritated skin.
5.3 Advice for firefighters	Wear fully protective suit, safety glasses and respiratory device .
5.4 further information	Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:	Wore chemical protection suit and self-contained breathing apparatus (SCBA). Collect spilled into container and absorb with sand, earth or inert substances. Keep containers tightly sealed. Do not allow water into the container ban chemical exposure. Spray water to reduce vapors. Ventilate the area and wash clean the area spilled material contained closed.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	For use in are with adequate ventilation. Do not use in confined spaces. Electro static discharge protection. Do not let flame ignition
7.2 Conditions for safe storage, including any incompatibilities	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses	no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	liquid
Colour:	colourless
Odour:	pungent
pH-value:	No data available
Melting point/Melting range:	-135°C
Boiling point/Boiling range:	45°C.

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Flammability (solid, gaseous):	No data available
Ignition temperature:	390°C
Decomposition temperature:	No data available
Self-igniting:	No data available
Flash point:	-32°C in closed cup
Danger of explosion:	Not classified
Explosion limits: Lower:	2.9%
Explosion limits: Upper:	11.2%
Vapour pressure:	295 mmHg at 20°C
Density at 20 °C:	1.48 g/cm^3 (approx.)
Relative density:	0.94
Vapour density:	2.1
Evaporation rate:	4.6 relatively high
Solubility in / Miscibility with-·water at 20 °C:	slightly soluble
Partition coefficient:(n-octanol/water)	2.1
Viscosity:	0.34 cP at 20°C (approx)

SECTION 10: Stability and reactivity

10.1 Reactivity	Strong reaction with oxidizing substance
10.2 Chemical stability	The material is stable in room temperature
10.3 Possibility of hazardous reactions	May cause polymerization reaction under the influent of acid, heat and peroxide
10.4 Conditions to avoid	heat, humidity, air
10.5 Incompatible materials	Strong oxidizing, Acid, Metal, Amine, Aluminium, Chlorides, Plastic, Rubber and coating
10.6 Hazardous decomposition products	Hydrogen Chloride, Chlorine

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat) : 450 mg/kg **LD50** (Dermal, Rabbit) : 2026 mg/kg **LC50** (Inhalation Rat) : 6.57mg/liter /4 hrs.
Skin corrosion/Irritation:	causes severe skin corrosion and irritation, leading to redness and pain.
Serious eye damage/irritation:	causes serious eye damage, resulting in severe irritation, pain, redness
Respiratory damage/irritation:	Irritate the nose and throat Cause pneumonia, cough, shortness of breath, headache, dizziness and unconsciousness.
Ingestion:	Stomachache, vomiting and abdominal pain.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	no data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Aquatic Toxicity:	It is highly toxic to aquatic organisms in relatively low concentrations.
Biodegradability:	Not biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	**LC50:** 20 mg/l 96 h (Pimephales promelas)
12.2 Persistence and degradability:	Rapid persistent
12.3 Bioaccumulative potential:	Not bio-accumulative
12.4 Mobility in soil:	No data available

12.5 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Soapy water, alcohols, organic solvents like acetone or ethanol and sodium bicarbonate.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1100
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Allyl chloride
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	I
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	Do not transport with food and feedstuffs. Keep the package is resistant to cracking if kept in the packaging broken. The package was then placed in a container resistant to cracking and sealed.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified as toxic and flammable substance.
Named dangerous substances	This substance is listed in Part 1 of the annex 1 to the directive under the category of "Dangerous substances" due to its acute toxicity

15.2 Chemical safety assessment:	Chemical assessment has been carried out under **REACH** regulation

SECTION 16: Other information

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available