

CAS-No.: 107-05-1 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Substance EC Index-No. : 602-029-00-X EC-No. : 203-457-6 CAS-No. : 107-05-1 : 00877 Product code Formula C3H5CI · Chemical structure H₂C^{CI} Synonyms : 3-Chloro-1-propene / Chlorallylene Relevant identified uses of the substance or mixture and uses advised against 1.2. **Relevant identified uses** 1.2.1 Use of the substance/mixture : Laboratory chemicals, Manufacture of substances Uses advised against 1.2.2. No additional information available 1.3. Details of the supplier of the safety data sheet LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com 1.4. **Emergency telephone number** Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm) SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Flammable liquids, H225 Category 2 Acute toxicity (dermal), H312 Category 4 H332 Acute toxicity (inhal.), Category 4 Acute toxicity (oral), H302 Category 4 Carcinogenicity, Category H351 2 Germ cell mutagenicity, H341 www.lobachemie.com 19/04/2016

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Category 2 Serious eye damage/eye irritation, Category 2	H319
Skin corrosion/irritation,	H315
Category 2	
Specific target organ	H335
toxicity — Single	
exposure, Category 3,	
Respiratory tract irritation	
Specific target organ	H373
toxicity — Repeated	
exposure, Category 2	
Hazardous to the aquatic	H400
environment — Acute	
Hazard, Category 1	

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40 Muta.Cat.3; R68 F; R11 Xn; R20/21/22 Xn; R48/20 Xi; R36/37/38 N; R50 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (I Hazard pictograms (CLP)	EC) No. 1272/2008 [CLP]
	GHS02 GHS08 GHS07 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour. H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure. H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P261 - Avoid breathing vapours, dust, fume, gas.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: ALLYL CHLORIDE FOR SYNTHESIS	
CAS-No.	: 107-05-1	
EC-No.	: 203-457-6	
EC Index-No.	: 602-029-00-X	

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Suspected of causing cancer.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause respiratory irritation. Harmful if inhaled.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
Chronic symptoms	: Suspected carcinogen.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.

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Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protect	ive equipment and emergency procedures
General measures	
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	I
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Very toxic to aquatic life.	
6.3. Methods and material for cont	ainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Avoid contact with skin and eyes. Use only non-sparking tools. Obtain special instructions before use. Use personal protective equipment as required. Keep away from sources of ignition - No smoking. Do not breathe vapours. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	

No additional information available

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8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Molecular mass Colour	: 76.53 g/mol : Clear Colorless.
Odour	: pungent odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -135 °C
Freezing point	: No data available
Boiling point	: 45 °C
Flash point	: -29 °C
Auto-ignition temperature	: 390 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.
Vapour pressure	: 395 mbar
Relative vapour density at 20 °C	: No data available
Relative density	: 0.939
Density Solubility	: 0.94 g/cm³ : Water: 0.36 g/100ml (20 °C)
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.032 - 0.112 vol %

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
Highly flammable liquid and vapour.	
10.2. Chemical stability	
Stable under normal conditions.	
40.2 Descibility of homorrhous reaction	
10.3. Possibility of hazardous reaction No additional information available	5
10.4. Conditions to avoid	
Open flame. Heat. Sparks.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produ	cts
May release flammable gases.	
SECTION 11: Toxicological information	
11.1. Information on toxicological effective	
Acute toxicity	: Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled. Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin.
SECTION 12: Ecological information	
12.1. Toxicity	
	: Very toxic to aquatic life.

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	ment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT/	A / ADN
14.1. UN number	
UN-No. (ADR)	: 1100
UN-No. (ADR) UN-No. (IMDG)	: 1100 : 1100
UN-No. (IMDG)	: 1100
UN-No. (IMDG) UN-No. (IATA)	: 1100 : 1100
UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN)	: 1100 : 1100 : 1100
UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: 1100 : 1100 : 1100
UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name	: 1100 : 1100 : 1100 : 1100
UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR)	: 1100 : 1100 : 1100 : 1100 : ALLYL CHLORIDE
UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	: 1100 : 1100 : 1100 : 1100 : ALLYL CHLORIDE : ALLYL CHLORIDE
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UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR)	 1100 1100 1100 1100 1100 4LLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE UN 1100 ALLYL CHLORIDE, 3 (6.1), I, (C/E), ENVIRONMENTALLY HAZARDOUS
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UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID) 14.3. Transport hazard class(es)	 1100 1100 1100 1100 1100 ALLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE ALLYL CHLORIDE UN 1100 ALLYL CHLORIDE, 3 (6.1), I, (C/E), ENVIRONMENTALLY HAZARDOUS UN 1100 ALLYL CHLORIDE, 3 (6.1), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (-29°C c.c.) UN 1100 Allyl chloride, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS UN 1100 Allyl chloride, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS UN 1100 ALLYL CHLORIDE, 3 (6.1), I, ENVIRONMENTALLY HAZARDOUS

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IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



: 3 (6.1) : 3, 6.1

: 3 (6.1)

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Transport hazard class(es) (IATA)	
Hazard labels (IATA)	



Transport hazard class(es) (ADN) Danger labels (ADN)

: 3, 6.1



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Transport hazard class(es) (RID)	: 3 (6.1)
Danger labels (RID)	: 3, 6.1

:



14.4. Packing group	
Packing group (ADR)	: 1
Packing group (IMDG)	: 1
Packing group (IATA)	: 1
Packing group (ADN)	: 1
Packing group (RID)	: 1
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

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14.6. Special precautions for user

- Overland transport

- Overland transport	
Classification code (ADR)	: FT1
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P001
Mixed packing provisions (ADR)	: MP7, MP17
Portable tank and bulk container instructions (ADR)	: T14
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L10CH
Tank special provisions (ADR)	: TU14, TU15, TE21
Vehicle for tank carriage	: FL
Transport category (ADR)	: 1
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S2, S22
Hazard identification number (Kemler No.)	: 336
Orange plates	336 1100
Tunnel restriction code (ADR)	
EAC code	: 3YE
- Transport by sea	
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP13
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: E
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -29°C c.c.
Properties and observations (IMDG)	Colourless liquid with an unpleasant pungent odour. Flashpoint: -29°C c.c. Explosive limits: 3.3% to 11.1% Boiling point: 44°C. Immiscible with water. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 131
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 361
CAO max net quantity (IATA)	: 30L
ERG code (IATA)	: 3P

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- Inland waterway transport	
Classification code (ADN)	: FT1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: FT1
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP7, MP17
Portable tank and bulk container instructions (RID)	: T14
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L10CH
Special provisions for RID tanks (RID)	: TU14, TU15, TU38, TE21, TE22
Transport category (RID)	: 1
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28
Hazard identification number (RID)	: 336

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ALLYL CHLORIDE FOR SYNTHESIS is not on the REACH Candidate List ALLYL CHLORIDE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 15)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

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SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin

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R40	Limited evidence of a carcinogenic effect
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50	Very toxic to aquatic organisms
R68	Possible risk of irreversible effects
F	Highly flammable
Ν	Dangerous for the environment
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product