



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 21-Aug-2025 Revision Number 6.06

Category 1, Category 2, Category 3

Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name | Allyl Chloride |
|--------------|---------------------|
| Product Code | 011-01393,015-01396 |

Supplier FUJIFILM Wako Pure Chemical Corporation

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Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Self-reactive substances and mixturesType GFlammable liquidsCategory 2Corrosive to metalsCategory 1Acute toxicity - OralCategory 4Acute toxicity - Inhalation (Vapors)Category 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1

Carcinogenicity Category 1

Category 1

Category 1

Specific target organ toxicity (single exposure)

Category 1 respiratory system

Category 2 nervous system, cardiovascular system, liver, kidneys

Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure) Category 1, Category 2

Category 1 nervous system, respiratory system, kidneys

Category 2 blood system

Acute aquatic toxicity Category 2

Pictograms



Hazard statements

H225 - Highly flammable liquid and vapor

H290 - May be corrosive to metals

H315 - Causes skin irritation

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H331 - Toxic if inhaled

H350 - May cause cancer

H336 - May cause drowsiness or dizziness

H401 - Toxic to aquatic life

H370 - Causes damage to the following organs: respiratory system

H371 - May cause damage to the following organs: nervous system, cardiovascular system, liver, kidneys

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system, respiratory system, kidneys

H373 - May cause damage to the following organs through prolonged or repeated exposure: blood system

Precautionary statements-(Prevention)

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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
- · Keep only in original container
- Keep cool

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- In case of fire: Use suitable extinguishing media for extinction
- · Absorb spillage to prevent material damage

Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up
- Store in corrosive resistant/ container with a resistant inner liner

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CH2:CHCH2CI

| Chemical Name | Weight-% | Molecular weight | ENCS | ISHL No. | CAS RN |
|----------------|----------|------------------|---------|----------|----------|
| Allyl chloride | 98.0 | 76.52 | (2)-123 | * | 107-05-1 |

Note on ISHL No.: * in the table means announced chemical substances.

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use with local exhaust ventilation. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and

then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed. Glass

Safe packaging material

Incompatible substances Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

| Chemical Name | JSOH (Japan) | ISHL (Japan) | ACGIH |
|----------------|--------------|--------------|-------------|
| Allyl chloride | N/A | N/A | STEL: 2 ppm |
| 107-05-1 | | | TWA: 1 ppm |
| | | | Skin |

| Chemical Name | Concentration standard value set by the Minister of Health, Labor and Welfare (8hr) | Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term) |
|----------------------------|---|--|
| Allyl chloride 107-05-1 | 1 ppm | N/A |

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) **Hand protection** chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color Colorless - slightly yellow

Turbidity clear Appearance liquid

Odor characteristic odor

Melting point/freezing point -135 °C Boiling point, initial boiling point and boiling range 45 °C

Flammability Highly flammable liquid and vapor

Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper: 11.1 vol% 2.9 vol%

Lower:

Flash point -29 °C 390 °C **Auto-ignition temperature:**

no data available **Decomposition temperature:** no data available pН Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities Ethanol, acetone: Very soluble. water: slightly soluble.

n-Octanol/water partition coefficient:(log Pow) -0.24Vapour pressure 29.3 kPa

 $0.934 - 0.942 \text{ g/m L } (20^{\circ}\text{C})$ Specific Gravity / Relative density

Vapour density 2.6(air=1) Particle characteristics no data available

Section 10: STABILITY AND REACTIVITY

Stability

no data available Reactivity Chemical stability May be altered by light.

Hazardous reactions

Corrodes metals to generate hydrogen gas.

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------|-------------------|---------------------|--------------------|
| Allyl chloride | = 450 mg/kg (Rat) | 2200 mg/kg (Rat) | 1100 ppm (Rat) 4 h |
| | | 2026 mg/kg (Rabbit) | |

| Chemical Name | Acute toxicity -oral- source information | Acute toxicity -dermal- source information | Acute toxicity -inhalation gas- source information |
|----------------|--|--|---|
| 7 myr ornoriae | | | Based on the NITE GHS |
| | classification results. | classification results. | classification results. |

| Chemical Name | Acute toxicity -inhalation vapor- source information | Acute toxicity -inhalation dust- source information | Acute toxicity -inhalation mist- source information |
|----------------|--|--|--|
| Allyl chloride | Based on the NITE GHS | Based on the NITE GHS | Based on the NITE GHS |
| • | classification results. | classification results. | classification results. |

Skin irritation/corrosion

| Chemical Name | Skin corrosion/irritation source information |
|--------------------------------|---|
| Allyl chloride | Based on the NITE GHS classification results. |
| Serious eve damage/ irritation | |

| Chemical Name | Serious eye damage/irritation source information |
|----------------|--|
| Allyl chloride | Based on the NITE GHS classification results. |

Respiratory or skin sensitization

| Chemical Name | Respiratory of okin sensitization source information |
|--------------------------------|--|
| Allyl chloride | Based on the NITE GHS classification results. |
| Reproductive cell mutagenicity | |

| Chemical Name | germ cell mutagencity source information |
|----------------|---|
| Allyl chloride | Based on the NITE GHS classification results. |

Carcinogenicity

| Chemical Name | Carcinogenicity source information |
|----------------|---|
| Allyl chloride | Based on the NITE GHS classification results. |

| Chemical Name | NTP | IARC | ACGIH | JSOH |
|----------------|-----|---------|-------|------|
| Allyl chloride | N/A | Group 3 | A3 | N/A |
| 107-05-1 | | · | | |

Reproductive toxicity

| Chemical Name | Reproductive toxicity source information | |
|----------------|---|--|
| Allyl chloride | Based on the NITE GHS classification results. | |

STOT-single exposure

| Chemical Name | STOT -single exposure- source information |
|----------------|---|
| Allyl chloride | Based on the NITE GHS classification results. |

STOT-repeated exposure

| Chemical Name | STOT -repeated exposure- source information |
|----------------|---|
| Allyl chloride | Based on the NITE GHS classification results. |

Aspiration hazard

| Chemical Name | Aspiration Hazard source information |
|----------------|---|
| Allyl chloride | Based on the NITE GHS classification results. |

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|----------------|----------------------|---------------------|--------------------|
| Allyl chloride | N/A | LC50 : 1.2 mg/L 14d | EC50:Daphnia magna |
| | | _ | 250 mg/L 24 h |

Other data

| Chemical Name | Short-term (acute) hazardous to the | Long-term (chronic) hazardous to the | |
|----------------|--|--|--|
| į a | aquatic environment source information | aquatic environment source information | |
| Allyl chloride | Based on the NITE GHS classification | Based on the NITE GHS classification | |
| ı | results. | results. | |

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available
No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN number UN1100
Proper shipping name: Allyl chloride

UN classfication 3
Subsidiary hazard class 6.1
Packing group

Marine pollutant Not applicable

^{*}NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

IMDG

UN number UN1100 Proper shipping name: Allyl chloride

UN classfication 3
Subsidiary hazard class 6.1
Packing group |

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Cargo Aircraft only

UN number UN1100
Proper shipping name: Allyl chloride

UN classfication 3
Subsidiary hazard class 6.1
Packing group |

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, Class I petroleums, dangerous grade 2

Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2) Mutagens - Existing Chemicals

Substances with Health Hazards Prevention Guideline(Carcinogenicity Substance)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Item 4)

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) [2027.4.1~] Substances designated by the Minister of Health, Labor and Welfare as

Industrial Safety and Health Act (

2027~)

carcinogenic(Ordinance on Industrial Safety and Health Art.577, Para.2)
Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc

Regulations for the carriage and storage of dangerous

goods in ship

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 123

Air Pollution Control Law Hazardous Air Pollutants

| Chemical Name | Poisonous and Deleterious Substances Control Law | Industrial Safety and Health Act Substances (Law Art.57-2) | Pollutant Release and Transfer Register Law (2023.4.1-) |
|-------------------------------------|---|--|---|
| Allyl chloride 107-05-1 (98.0) | - | Applicable | Applicable |

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet