

## 1. Product and Company Identification

www.rxmarine.com

Product Name Methallyl chloride  
Part Number RXSOL-19-1175-250

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400  
Fax +91 22 27612100 ::AOH :0091 9821214367  
Email [mail@rxmarine.com](mailto:mail@rxmarine.com)  
Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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Product name	Cas No	EC No	Weight	Formula
METHALLYL CHLORIDE	563-47-3	-	98 - 100	C <sub>4</sub> H <sub>7</sub> Cl

## 3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H225 - Highly flammable liquid and vapor H302+H332 - Harmful if swallowed or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H350 - May cause cancer H401 - Toxic to aquatic life
Precautionary statements	P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection P308+P313 - If exposed or concerned: Get medical advice/attention P210 - Keep away from heat, open flames, sparks. - No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing vapors P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P330 - Rinse mouth P301+P312 - If swallowed: Call a doctor if you feel unwell P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing, rinse skin with water/shower P332+P313 - If skin irritation occurs: Get medical advice/attention P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P312 - Call a doctor if you feel unwell P321 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical to extinguish P403+P235 - Keep in a cool place P405 - Store locked up P501 - Dispose of contents/container to licensed

Classification of the substance or mixture	waste disposal facility.
Supplemental Hazard Statements	No data available
Other hazards	No data available

## 4. First Aid Measures

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General advice	Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
If inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
Eye Contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention
Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water
Skin Contact	Wash with plenty of soap and water. Get medical advice/attention
Inhalation	No data available
Ingestion	Never give anything by mouth to an unconscious person. Get medical advice/attention
Most important symptoms and effects, both acute and delay	May cause cancer.Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. Irritation to the nose, pulmonary edema.Causes skin irritation.Causes serious eye irritation.Swallowing a small quantity of this material will result in serious health hazard
Indication of any immediate medical attention and special treatment needed	No data available

## 5. Fire-fighting Measures

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Flammability	No data available
Suitable extinguishing media	Water fog. Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	Do not use straight streams
Special hazards arising from the substance or mixture	Highly flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame. May form flammable/explosive vapor-air mixture
Further information	No data available
Hazardous combustion products	No data available
Advice for firefighters	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
Protective Equipment	Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.
Specific Hazards Arising from the Chemical	No data available

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Eliminate every possible source of ignition. Use special care to avoid static electric charges.Wear protective equipment as described in Section 8. Emergency procedures : Evacuate unnecessary personnel
Spillage	No data available
Personal Protection	Do not attempt to take action without suitable protective equipment. For

Environmental Precaution

Methods and materials for containment and cleaning

Reference to other sections

further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

See Heading 8. Exposure controls and personal protection

## 7. Handling and Storage

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Advice on protection against fire and explosion

Incompatible materials

Hygiene measures

Advice on safe handling

Conditions for safe storage including any incompatibilities

Storage conditions

Storage class

Specific end use(s)

Advice on general occupational hygiene

Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Aluminum chloride. Amines. Iron. Magnesium. Oxidizing agent. Zinc.

Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.

No data available

Keep container tightly closed. Keep in a cool place. Store locked up Store in a well-ventilated place. Store away from heat.

No data available

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

No data available

## 8. Exposure controls and personal protection

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Exposure controls

Engineering Control

Eye/face protection

Skin/Body protection

Respiratory protection

Other Protection Measure

Personal protective equipment

Provide local exhaust or general room ventilation.

Neoprene or nitrile rubber gloves Chemical goggles. Contact lenses should not be worn.

Wear suitable protective clothing

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. If exposure is less than 25ppm air supplied respirator operated in a continuous flow mode is recommended. If exposure exceeds 25ppm a self-contained breathing apparatus with a full facepiece is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

No data available

## 9. Physical and chemical properties

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Physical state

Colour

Odour

Odor Threshold

pH

Liquid

Straw yellow

Sharp. characteristic.

No data available

No data available

Melting Point	-80 °C
Boiling Point	71 - 72 °C
Flash Point	-10 °C
Evaporation Rate	> 1
Flammability (solid, gas)	Highly flammable liquid and vapor
Explosive limits	No data Available
Upper/lower flammability or explosive limits	2.3 - 9.2 vol % (lower; upper)
Autoignition temperature	482 °C
Decomposition temperature	No data available
Vapour pressure	102 mm Hg @ 20°C
Viscosity	No data available
Density	No data available
Relative Density	0.925
Specific Gravity	No data available
Partition coefficient	log Pow: -1,999 at 20 °C
Explosive properties	No data available
Solubility	Slightly. Soluble in water. Water: 0.14 % @ 20°C
Ignition temperature	No data available
Particle characteristics	No data available
Relative Vapour Density	3.13

## 10. Stability and reactivity

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Reactivity	No data available
Chemical stability	Stable.
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat. Open flame. Sparks.
Incompatible materials	Aluminum chloride. Amines. Iron. Magnesium. Oxidizing agent. Zinc
Hazardous decomposition products	Organic acid vapors.

## 11. Toxicological information

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Acute toxicity	Oral: Harmful if swallowed. Inhalation:vapour: Harmful if inhaled.LD50 oral rat 580 mg/kg 848 mg/kg LD50 oral mouse 1370 mg/kg LD50 dermal rat > 4000 mg/kg >10,000 mg/kg LC50 inhalation rat > 5000 mg/mg <sup>3</sup> 4H ATE US (oral) 580.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h ATE US (dust, mist) 1.500 mg/l/4h
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	No data available
Carcinogenicity	May cause cancer Chronic Exposure: This product has been reported to be reasonably anticipated to be a human carcinogenic based on NTP. IARC, EPA and OSHA have not identified or classified this compound as a human carcinogen. Mouse feeding and inhalation studies classify this material as an equivocal tumorigenic agent.
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Additional Information	No data available

## 12. Ecological information

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Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 92 % - Readily biodegradable. (OECD Test Guideline 301D)
Toxicity to fish	LC50 fish 1 22.5 mg/l <i>Leuciscus idus</i> (bluegill fish)
Toxicity to daphnia and other aquatic invertebrates	EC50 Daphnia 1 7.2 mg/l <i>Daphnia magna</i> (24H)
Toxicity	Toxic to aquatic life.
Toxicity to bacteria	No data available
Toxicity to algae	Static test EC50 - <i>Skeletonema costatum</i> (marine diatom) - 3.700 mg/l - 72 h (ISO 10253)
Bioaccumulation potential	Log Pow 1.98
Mobility in soil	No data available
Results of PBT and vPvB assessment	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.
Endocrine disrupting properties	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
Other adverse effects	No data available

### 13. Disposal considerations

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Sewage disposal recommendations	Do not dispose of waste into sewer
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Additional information	Handle empty containers with care because residual vapors are flammable
Ecology - waste materials	Avoid release to the environment.

### 14. Transport information

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UN number	ADR/RID:2554	IMDG:2554	IATA:2554
UN proper shipping name	ADR/RID:Methylallyl chloride	IMDG:Methylallyl chloride	IATA:Methylallylchloride
Transport hazard class(es)	ADR/RID:3	IMDG:3	IATA:3
Packaging group	ADR/RID:II	IMDG:II	IATA:II
Environmental hazards	ADR/RID:No	IMDG:No	IATA:No
Special precautions for user	No data available		
Further information	No data available		

### 15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	No data available
Chemical Safety Assessment	A Chemical Safety Assessment was not carried out for this substance.

### 16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event
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