



# Material safety data sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Methylamine hydrochloride  
NAME OF MANUFACTURER : Junsei Chemical Co., Ltd.  
ADDRESS : 4-16, 4-Chome, Nihonbashi-Honcho, Chuo-ku Tokyo, 103-0023, JAPAN  
NAME OF SECTION : Quality Assurance Department  
TELEPHONE NUMBER : +81-48-986-6161  
FACSIMILE NUMBER : +81-48-989-2787  
Mail ADDRESS : shiyaku-t@junsei.co.jp

## 2. HAZARDS IDENTIFICATION

CLASSIFICATION: according to Regulation (EC)No 1272/2008  
GHS CLASSIFICATION : Acute toxicity-Oral: Category 4  
Skin corrosion/irritation: Category 2  
Eye damage/Eye irritation: Category 2  
Specific target organ toxicity (Single exposure): Category 3

PICTOGRAM :



**WARNING**

HAZARD STATEMENTS : H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS : P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

EU CLASSIFICATION: according to Directive 67/548/EEC

SYMBOL : Xn

R-phrase : R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Methylammonium Chloride  
SYNONYMS : Monomethylamine Hydrochloride  
FORMULA : CH<sub>3</sub>NH<sub>3</sub>Cl  
MOLECULAR WEIGHT : 67.52  
CAS NUMBER : 593-51-1  
TSCA INVENTORY : Listed  
EINECS No. : 209-795-0  
EC INDEX NUMBER : Not listed

## 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION : Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Transport to a hospital immediately.

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## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, alcohol-resistant foam, water spray  
FIRE & EXPLOSION HAZARDS : Toxic, irritating dust or smoke may be emitted.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS : Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.  
ENVIRONMENTAL PRECAUTIONS : Prevent spills from entering sewers, watercourses or low areas.  
METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection (See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

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## 7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING : Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. This material is hygroscopic.  
CONDITIONS FOR SAFE STORAGE : Store away from sunlight in well-ventilated dry place at room temperature (preferably cool place). Keep container tightly closed.  
INCOMPATIBILITIES : Oxidizers

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.  
VENTILATION : Local Exhaust ; Necessary, Mechanical (General) ; Necessary Special; Closed system is recommended.

### INDIVIDUAL PROTECTION MEASURES :

Respiratory protection : Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.  
Hand protection : Chemical resistant gloves  
Eye protection : Safety glasses (goggles)  
Skin protection : Protective clothing

### CONTROL PARAMETER :

OSHA Final Limits : None established  
ACGIH TLV(s) : None established

### OCCUPATIONAL EXPOSURE LIMITS

OEL-POLAND: MAC(TWA) dust 6 mg/m<sup>3</sup>, JAN1999

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : White, crystals - crystalline powder  
ODOUR : Not available  
ODOUR THRESHOLD : neutral - mild acidic  
pH : Not available  
MELTING POINT : approx. 230 °C = 446 °F  
INITIAL BOILING POINT : 225 - 230 °C = 437 - 446 °F/20hPa  
FLASH POINT : Not available  
FLAMMABILITY (solid, gas) : Not available  
EXPLOSIVE LIMITS : Not available  
VAPOR PRESSURE : Not available  
SPECIFIC GRAVITY : Not available  
SOLUBILITY IN ;  
WATER : Soluble  
HOT ETHANOL : Soluble  
ACETONE, DIETHYL ETHER : Practically insoluble  
PARTITION COEFFICIENT (log Po/w) : Not available  
DECOMPOSITION TEMPERATURE : Not available

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## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable under recommended storage conditions. Moisture-sensitive.  
CONDITIONS TO AVOID : Sunlight, heat, moisture  
INCOMPATIBLE MATERIALS : Oxidizers

## 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY(oral/dermal/inhalation) : LD50(ori, rat): 1600mg/kg (RTECS)  
LD50(ipr, mouse): 2160mg/kg (RTECS)  
LD50(skin, guinea pig): >2gm/kg (RTECS)

SKIN CORROSION/IRRITATION : Causes skin irritation.  
EYE DAMAGE/EYE IRRITATION : Causes serious eye irritation.  
RESPIRATORY OR SKIN SENSITIZATION : Not available  
GERM CELL MUTAGENICITY : Not available  
REPRODUCTIVE TOXICITY : Not available  
STOT (SINGLE EXPOSURE) : May cause respiratory irritation.  
STOT (REPEATED EXPOSURE) : TDLo(ipr, mouse): 610mg/kg(5D-l: Blood - changes in leukocyte (WBC) count (RTECS)  
ASPIRATION HAZARD : Not available  
CARCINOGENICITY : Not available

ADDITIONAL INFORMATION ;  
NTP : Not listed  
IARC : Not listed  
OSHA : Not listed  
ACGIH : Not listed

RTECS COMPOUND DESCRIPTOR: Drug

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## 12. ECOLOGICAL INFORMATION

ECOTOXICITY : Not available  
PERSISTENCE AND DEGRADABILITY : Not available  
BIOACCUMULATION POTENTIAL : Not available  
MOBILITY IN SOIL : Not available  
OTHER ADVERSE EFFECTS : Not available

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## 13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## 14. TRANSPORT INFORMATION

IATA : Not Restricted.  
MARINE POLLUTANT : No  
DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping.

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## 15. REGULATORY INFORMATION

US REGULATIONS ;  
EPA : CERCLA RQ= Not listed  
EPCRA TPQ= Not listed  
OSHA : TQ= Not listed

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## 16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

### REFERENCE :

1. Registry of Toxic Effects of Chemical Substances (RTECS)
2. Regulation (EC)No 1272/2008 [CLP]

No specific notes

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and Wako shall not be held liable for any damageresulting from handling or from contact with the above material.