TGV SRAAC LIMITED

GONDIPARLA, KURNOOL - 518004

TGV SRAAC/MSDS/20
Rev. /Date: 01/03.07.2025

MSDS – METHYL CHLORIDE

1. Company Identification:

M/s TGV SRAAC LIMITED,
(Formerly Sree Rayalaseema Alkalies & Allied Chemicals Ltd.), Gondiparla, Kurnool.
Phone : 08518 280006, 7, 8
Toll Free No. : 1800111735

2. Product Identification:

Chemical Name	: Methyl Chloride
Synonyms	: Chloro Methane
Chemical Formula	: CH_3Cl
Molecular Weight	: 50.45
CAS Registry No.	: 74-87-3.

3. Hazards Identification :

Colorless gas with slight sweet odor.

Health Effects:

Eye: With gas : Will result in slight disturbances
With Liquid : Causes Frostbite, irritation to eyes.
Inhalation : Slight exposure; may appearance of drunkenness, staggering, dizziness, nausea and possible hiccups. These effects may be delayed for several days.
Moderate exposure;causes mentalconfusion and possible temporary loss of consciousness.
Severe or prolonged exposure; may cause abdominal pain, vomiting, extreme nervousness or trembling to convulsions and death.
High concentration; may cause dizziness and interfere with normal heart rhythm.
Ingestion : Unlikely.

4. First Aid Measures :

Eye : Wash with plenty of water and seek medical aid.
Skin : Remove contaminated cloths. Wash with plenty of water and seek medical aid.
Ingestion : None required as product is a gas at room temperature.
Inhalation : Remove the victim to fresh air area. Quickly seek medical aid. The Physician should be instructed not to use ***Adrenaline*** as a stimulant in this case of Methyl Chloride poisoning.
Further treatment should be symptomatic and supportive.

5. Fire Fighting Measures:

Use CO_2, Dry chemical powder, foam or water spray.
Unusual or explosive Hazards : Keep the container cool by spraying water if exposed to heat or flame. Poisonous gases are produced in fire. Provide well ventilation to prevent formation of explosive mixture with air.
Flash point : <0 ˚C
Flammable limits : (Open cup) Lower : 8.1%
Upper : 17.2%

6. Accidental Release Measures:

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge with inert gas prior to attempting repairs.
If leak is in container or container valve, contact the appropriate emergency services.

7. Handling and Storage :

Store in cool place (below 48 ˚C) away from heat, flame, sparks.

8. Exposure Controls / Personnel Protection:

Protective Equipment (type)
Safety glasses, safety shoes, safety shower, eyewash, face shield.
Eye/Face Protection
Safety goggles or glasses.
Skin Protection
Protective Gloves : Neoprene or Butyl rubber . Do not use PVC or polyethylene.
Respiratory Protection
Airborne concentration should be kept to lowest
Ventilation
Adequate to meet component occupational exposure limits.
levels possible. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown. Positive pressure air line with full-face mask and escape bottle or self-contained breathing apparatus should be available for emergency use.

9.Physical and chemical properties:

Appearance	: Colorless gas.
Odor	: Slight sweet odor.
Others	: Miscible with Chloroform, Ether, Glacial Acetic Acid.
Boiling point	: -23.7 ˚C
Freezing point	: -97 ˚C
Vapor Density	: 1.45 at STP(Air=1)
Specific Gravity	: 0.92 (at 20 ˚C)(water=1)
Physical state	: Gas
Vapor Pressure	:73.4 Pisa (At STP)
Solubility in water at 30 ˚C: 0.45%.	

10. Stability and reactivity:

Chemical Stability : Stable.
Incompatibility with other materials : Chemically Active Metals such as Potassium, Powdered Aluminum, Zinc, Magnesium.
Reactivity : Reacts violently with Lithium, Sodium, Potassium, Potassium-Tert-Butoxide.
Hazardous Reaction Products: Not Available.

11. Toxicological Information:

Toxicity Data :
Oral : N.D.
Inhalation : Reproductive toxicity observed in male rats following an inhalation of 2000 ppm for 6 hours.
Developmental defects observed following inhalation exposure of pregnant female rats to 1500 ppm for 6 hours.
Dermal: N.D. **Skin:** N.D. **Mutagenic :** N.A.
Other : When inhaled, it enters the body cells where hydrolysis to hydrochloric acid and methyl alcohol occurs. This results in degenerative changes to the lungs, brain, kidney and liver.
Methyl chloride is readily absorbed into the body, but is very slowly given up, resulting in the possibility of latent toxicological effects. In fatal cases, autopsy has shown congestion of the lungs, liver and kidneys.

TLV (ACGIH): 60 PPM (105 mg/m^3)
STEL 100 PPM (205 mg/m^3)

12. Ecological Information : None.

13. Disposal Consideration:

Waste Disposal Methods :
Do not attempt to dispose of residual waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap to authorized distributor for proper disposal.
Remarks:
None.

14. Transport Information:

Shipping Name : Methyl Chloride.
Hazard Classification : 2.1
U.N.No. : 1063
Shipping label : Flammable gas.
Additional marks required if weight is more than 100 pounds

15. Regulatory Information:

Local Regulatory bodies:
APPCB, Kurnool.
Dy. Chief Inspector of Factories, Kurnool.

16. Other Information:

Information containing in this MSDS is believed to be reliable. But no guarantee is made as to its accuracy, suitability for a particular application or results to be obtained from them.

Contact Person :

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