OTTO CHEMIE PVT LTD

An ISO 9001 : 2015 & GMP Certified Company
101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841
Email : info@ottokemi.com Web : www.ottokemi.com

Revision Date: 21-09-2026

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers
Product name: Myristyl-γ-picolinium chloride, 97%+
Product Code: M 2415
CAS No: 2748-88-1

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number
Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, oral (Category 4),	H302
Skin corrosion/irritation (Category 2)	H315
Serious eye damage/eye irritation (Category 1),	H318
Acute toxicity, inhalation (Category 1, 2),	H330
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3),	H335
Hazardous to the aquatic environment, acute hazard (Category 1),	H400

2.2 GHS Label elements, including precautionary statements
Pictogram
Signal word — Danger
Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H330	Fatal if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Precautionary statement(s)
Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.

Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.

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P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container to in accordance with local regulation.

2.3 Other hazards
None.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms:	: Myristyl gamma picolinium chloride
Molecular weight	: 326.02g/mol
Molecular formula	: C20H36N.Cl
CAS-No.	: 2748-88-1

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures
Eye contact
Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water.
Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.
Skin contact
Rinse skin thoroughly with large amounts of water.
Remove contaminated clothing and shoes and call a physician.
Inhalation
Immediately relocate self or casualty to fresh air.
If breathing is difficult, give cardiopulmonary resuscitation (CPR).
Avoid mouth to-mouth resuscitation.
Ingestion
Wash out mouth with water; Do NOT induce vomiting; call a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2).
4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.
5.2 Special hazards arising from the substance or mixture
During combustion, may emit irritant fumes.
5.3 Advice for firefighters
Special protective equipment for firefighters
Use personal protective equipment.
Specific extinguishing methods
Use extinguishing measures that are appropriate to local circumstances
and the surrounding environment.
Immediately evacuate personnel to safe areas.
Remove undamaged containers from fire area if it is safe to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas.
Ensure adequate ventilation. Evacuate personnel to safe areas.
Refer to protective measures listed in sections 8.
6.2 Environmental precautions
Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

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6.3 Methods and materials for containment and cleaning up
Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders);
Decontaminate surfaces and equipment by scrubbing with alcohol;
Dispose of contaminated material according to Section 13.
6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage
7.1 Precautions for safe handling
Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation.
Use only in areas with appropriate exhaust ventilation.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.
Recommended storage temperature:
2-8°C, sealed storage, away from moisture
Shipping at room temperature if less than 2 weeks.
7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Components with workplace control parameters
This product contains no substances with occupational exposure limit values.
8.2 Exposure controls
Engineering controls
Ensure adequate ventilation. Provide accessible safety shower and eye wash station.
Personal protective equipment

Eye protection	: Safety goggles with side-shields.
Hand protection	: Protective gloves.
Skin and body protection	: Impervious clothing.
Respiratory protection	: Suitable respirator.
Environmental exposure controls	: Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Appearance	Powder to chunks
Colour	White to off white
Odor threshold	Odorless
pH	No data available
Melting/freezing point	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information
No data available.

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SECTION 10: Stability and reactivity
10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available.
10.5 Incompatible materials
Strong acids/alkalis, strong oxidising/reducing agents.
10.6 Hazardous decomposition products
Under fire conditions, may decompose and emit toxic fumes.
Other decomposition products - no data available.

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:
Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.
Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.
Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information
12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.
12.6 Other adverse effects
No data available.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Product
Dispose substance in accordance with prevailing country, federal, state and local regulations.
Contaminated packaging
Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

SECTION 14: Transport information
DOT (US)
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN number: 2811
Class: 6.1
Packing group: Ⅱ
IMDG
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN number: 2811
Class: 6.1 Packing group: Ⅱ
IATA
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN number: 2811
Class: 6.1
Packing group: Ⅱ

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SECTION 15: Regulatory information

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

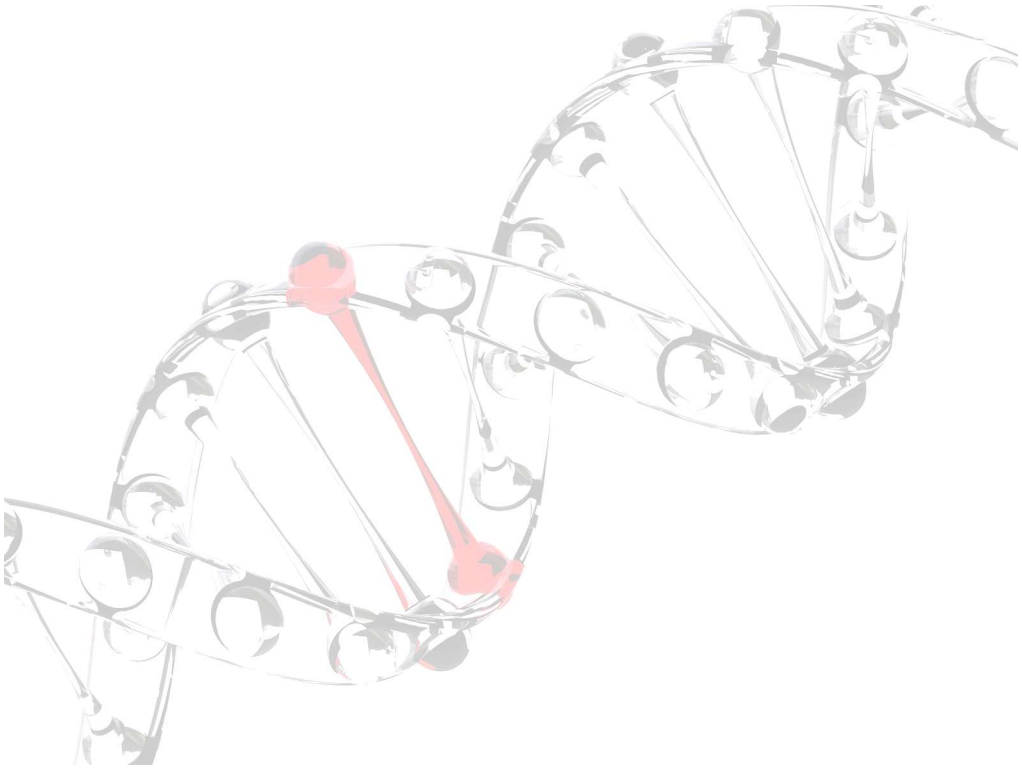
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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