

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)
Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 20-08-2026

Revision Date: 18-07-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: Cetyltrimethylammonium chloride solution
Product Code: C 0621
CAS No: 112-02-7

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
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Acute toxicity, Category 4
Acute toxicity, Category 3
Skin corrosion, Sub-category 1C

Short-term (acute) aquatic hazard,
Category 1
Long-term (chronic) aquatic hazard,
Category 1

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms
Signal word
Hazard statements

H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

: Danger
: H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:
P260 Do not breathe dust.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H314

H311

Precautionary Statements

P260

P280

P303 + P361 + P353

P305 + P351 + P338

:
Danger

Causes severe skin burns and eye damage.

Toxic in contact with skin.

Do not breathe dust.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

none

Supplemental Hazard Statements

2.3 Other hazards

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.

Ecological information: 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.

Toxicological information: 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.

SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No. : 203-928-6

Components

Chemical name	CAS-No. EC-No.	Concentration (%) w/w)	M-Factor, SCL, ATE
Hexadecyltrimethylamm onium chloride	112-02-7 203-928-6	>= 90 - <= 100	M-Factor (Acute aquatic toxicity): 10Acute toxicity estimate Acute dermal toxicity: 528 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation).

Call a physician immediately.

Do not attempt to neutralise.

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) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

fire fighting

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products

Carbon oxides

Nitrogen oxides (NO_x)

Hydrogen chloride gas

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:

Avoid generation and inhalation of dusts in all circumstances.

Avoid substance contact.

Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully. Dispose of properly. Clean up affected area.

Avoid generation of dusts.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions

Tightly closed. Dry. Keep in a well-ventilated place.

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Keep locked up or in an area accessible only to
qualified or authorised persons.
Storage class (TRGS 510) : 6.1C, Combustible, acute toxic Cat.3 / toxic
compounds or compounds which causing chronic effects
Further information on
storage stability
hygroscopic
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Use equipment for eye protection tested and
approved under appropriate government standards
such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Full contact

Manufacturer : Dermatril®

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Splash contact

Manufacturer : Dermatril®

Remarks : Handle with gloves. Gloves must be inspected prior to
use. Use proper glove removal technique (without
touching glove's outer surface) to avoid skin contact
with this product. Dispose of contaminated gloves
after use in accordance with applicable laws and good
laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the
specifications of Regulation (EU) 2016/425 and the
standard EN 374 derived from it.

If used in solution, or mixed with other substances,
and under conditions which differ from EN 374,
contact the supplier of the CE approved gloves. This
recommendation is advisory only and must be
evaluated by an industrial hygienist and safety officer
familiar with the specific situation of anticipated use
by our customers. It should not be construed as
offering an approval for any specific use scenario.

Skin and body protection : protective clothing

Respiratory protection : required when dusts are generated.

Our recommendations on filtering respiratory
protection are based on the following standards: DIN
EN 143, DIN 14387 and other accompanying
standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory
protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: solid
Form	: Liquid
Color	: white
Odor	: No data available
Melting point/ range	: 232 - 237 °C
Boiling point/boiling range	: 235 °C (1.013 hPa) Method: OECD Test Guideline 103
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: 0,24 g/l (25 °C) pH: 7 log Pow: 3,08 (25 °C) Method: (calculated) GLP: yes Bioaccumulation is not expected.
Partition coefficient: noctanol/water	: < 1 Pa (20 °C) Method: OECD Test Guideline 104 GLP: yes
Vapor pressure	: No data available
Relative density	: 0,96 g/cm3 (20 °C)
Density	: No data available
Relative vapour density	
9.2 Other information	
Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Surface tension	: 33 mN/m, 1 g/l, OECD Test Guideline 115
Molecular weight	: 320,00 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Conditions to avoid : no information available

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

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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

Components:

Hexadecyltrimethylammonium chloride:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,19 - 0,29 mg/l

End point: mortality

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and

other aquatic

invertebrates

EC50 (Daphnia magna (Water flea)): 0,280 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)):

0,04 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: (in analogy to similar products)

ErC50 (Pseudokirchneriella subcapitata (green

algae)): 0,08 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: (in analogy to similar products)

M-Factor (Acute aquatic toxicity) 10

Toxicity to microorganisms

EC50 (Pseudomonas putida): 0,96 mg/l

Exposure time: 16 h

Test Type: static test

Method: DIN 38 412 Part 8

GLP: yes

Toxicity to fish (Chronic

toxicity)

NOEC: 0,0322 mg/l

Exposure time: 28 d

Species: Pimephales promelas (fathead minnow)

Analytical monitoring: yes

Method: US-EPA

GLP: yes

Remarks: (in analogy to similar products)

Toxicity to daphnia and

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other aquatic
invertebrates (Chronic
toxicity)
NOEC: 99,1 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
NOEC: 6,8 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
Ecotoxicology Assessment
Acute aquatic toxicity : Very toxic to aquatic life.

12.2 Persistence and degradability

Components:

Hexadecyltrimethylammonium chloride:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Components:

Hexadecyltrimethylammonium chloride:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 56 d

Bioconcentration factor (BCF): 79

Elimination: yes

Method: US-EPA

GLP: yes

Partition coefficient: noctanol/water

log Pow: 3,08 (25 °C)

Method: (calculated)

GLP: yes

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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.

12.6 Endocrine disrupting properties

Product:

Assessment

: 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.

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 2923
IMDG : UN 2923
IATA : UN 2923

14.2 UN proper shipping name

ADR : CORROSIVE SOLID, TOXIC, N.O.S.
(Hexadecyltrimethylammonium chloride)
IMDG : CORROSIVE SOLID, TOXIC, N.O.S.
(Hexadecyltrimethylammonium chloride)
IATA : Corrosive solid, toxic, n.o.s.
(Hexadecyltrimethylammonium chloride)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 8 6.1	
IMDG	: 8 6.1	
IATA	: 8 6.1	

14.4 Packing group

ADR	
Packing group	: III
Classification Code	: CT2
Hazard Identification Number	: 86
Labels	: 8 (6.1)
Tunnel restriction code	: (E)
IMDG	
Packing group	: III
Labels	: 8 (6.1)
EmS Code	: F-A, S-B
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 864
Packing instruction (LQ)	: Y845
Packing group	: III
Labels	: Class 8 - Corrosive substances, Division 6.1 - Toxic substances
IATA_P (Passenger)	
Packing instruction (passenger aircraft)	: 860
Packing instruction (LQ)	: Y845
Packing group	: III
Labels	: Class 8 - Corrosive substances, Division 6.1 - Toxic substances

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

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Not applicable
REACH - Candidate List of Substances of Very
High Concern for Authorisation (Article 59).
Not applicable
Regulation (EU) No 2024/590 on substances that
deplete the ozone layer
Not applicable
Regulation (EU) 2019/1021 on persistent organic
pollutants (recast)
Not applicable
REACH - List of substances subject to
authorisation (Annex XIV)
Not applicable
Seveso III: Directive 2012/18/EU of the
European Parliament and of the Council
on the control of major-accident hazards
involving dangerous substances.
E1 ENVIRONMENTAL HAZARDS
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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