

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: Chloroform-D 99.8 atom % D [contains 1 % (v/v) TMS]
Product Code: C 2111
CAS No: 865-49-6

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 irritation, Category 2
Eye irritation, Category 2
Carcinogenicity, Category 2
Reproductive toxicity, Category 2

Specific target organ toxicity -
single exposure, Category 3, Central
nervous system

Specific target organ toxicity -
repeated exposure, Category 1,
Liver, Kidney

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

H302: Harmful if swallowed.
H331: Toxic if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H351: Suspected of causing cancer.
H361d: Suspected of damaging the unborn child.
H336: May cause drowsiness or dizziness.

H372: Causes damage to organs through
prolonged or repeated exposure.

:
: Danger
: H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs (Liver, Kidney)
through prolonged or repeated exposure.

Precautionary
statements

Prevention:
P202 Do not handle until all safety precautions
have been read and understood.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/
doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P311 IF INHALED: Remove person to

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fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Additional Labelling

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H331

H351

H372

H361d

Precautionary Statements

P202

P304 + P340 + P311

P308 + P313

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.

For use in industrial installations only.

:

Danger

Toxic if inhaled.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

Suspected of damaging the unborn child.

Do not handle until all safety precautions have been read and understood.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

IF exposed or concerned: Get medical advice/ attention.
none

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Deuteriochloroform

EC-No. : 212-742-4

Components

Chemical name	CAS-No. EC-No.	Concentration (%) w/w)	M-Factor, SCL, ATE
Chloroform-D1- Deuteration	865-49-6 212-742-4	>= 90 - <= 100	Acute toxicity estimateAcute oral toxicity: 908 mg/kg Acute inhalation toxicity (vapour): 3,1 mg/l

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. Immediately call in physician.

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

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

Consult a physician.

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

Call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: immediately make victim drink water (two glasses at most).

Consult 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) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 : Not combustible.

fire fighting

Ambient fire may liberate hazardous vapours.

Hazardous combustion products

Carbon oxides

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:

Do not breathe vapours, aerosols.

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 with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

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

Temperature class : T3

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions

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

locked up or in an area accessible only to qualified or authorised persons.

Storage class (TRGS 510) : 6.1D, Non-combustible, acute toxic Cat.3 / toxic

hazardous materials or hazardous materials causing chronic effects

Further information on storage stability

Store under inert gas.

Light sensitive.

hygroscopic

Recommended storage temperature

Recommended storage temperature see product label.

Packaging material : Suitable material: Amber Glass Bottle/Jar, Sure-Seal Bottles

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

Individual protection measures, such as personal protective equipment (PPE)

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

Safety glasses

Hand protection

Material : Viton®

Break through time : 480 min

Glove thickness : 0,7 mm

Protective index : Full contact

Manufacturer : Vitoject®

Material : butyl-rubber

Break through time : 10 min

Glove thickness : 0,7 mm

Protective index : Splash contact

Manufacturer : Butoject® (KCL 898)

Remarks : This recommendation applies only to the product

stated in the safety data sheet, supplied by us and

for the designated use. When dissolving in or mixing

with other substances and under conditions deviating

from those stated in EN 16523-1 please contact the

supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: www.kcl.de).

Skin and body protection : protective clothing

Respiratory protection : required when vapours/aerosols 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 AX

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	: liquid
Colour	: colourless
Odour	: characteristic
Melting point/ range	: -64 °C Method: lit.
Boiling point/boiling range	: 60,9 °C Method: lit.
Flammability	: The product is not flammable.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: Method: Regulation (EC) No. 440/2008, Annex, A.9 does not flash
Autoignition temperature	: > 203 °C (ca. 1.004,6 hPa) Method: Regulation (EC) No. 440/2008, Annex, A.15
Decomposition	: Distillable in an undecomposed state at normal pressure.
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	: 4,6 g/l (20 °C) pH: 6,3 - 6,8 Method: Regulation (EC) No. 440/2008, Annex, A.6
Partition coefficient: noctanol/water	: log Pow: 1,5 (20 °C) Method: Regulation (EC) No. 440/2008, Annex, A.8 Bioaccumulation is not expected.
Vapour pressure	: ca. 265,31 hPa (ca. 25 °C)
Relative density	: No data available
Density	: 1,500 g/cm ³ (25 °C) Method: lit.
Relative vapour density	: No data available
9.2 Other information	
Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 120,38 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of explosion with:

Ammonia
Amines
nitrogen oxides
bases
Oxygen
alkali amides
organic nitro compounds
Alcohols
alkali hydroxides
strong alkalis
Fluorine

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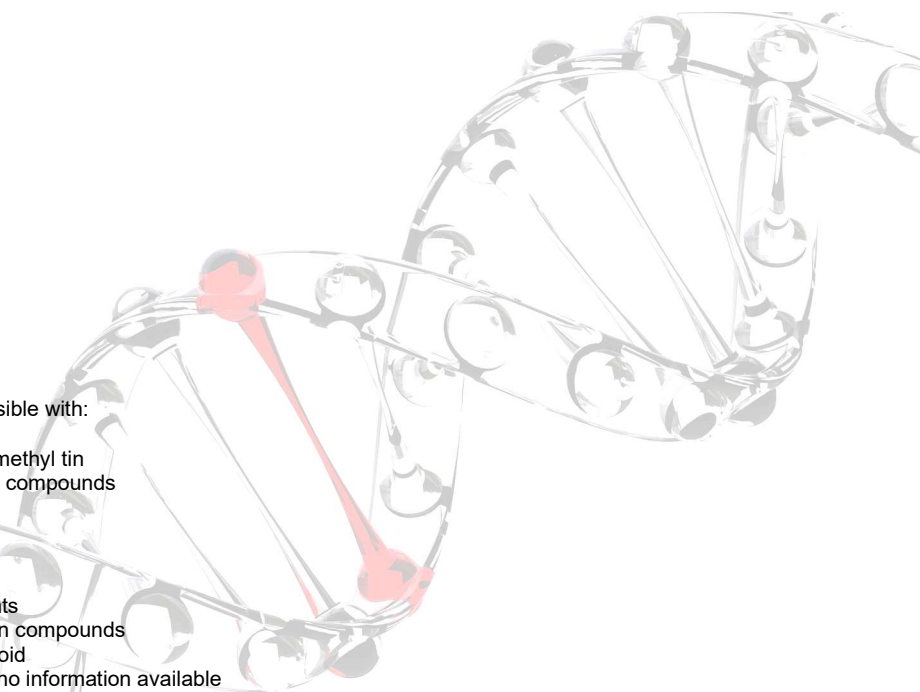
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peroxi compounds
Alkaline earth metals
Alkali metals
Powdered metals
Methanol
with
alcoholates
Methanol
with
strong alkalis
Iron
in powder form
various alloys
sensitive to shock
Methanol
with
Sodium hydroxide
magnesium
in powder form
Oxygen
with
alkali compounds
Aluminium
in powder form
Acetone
with
alkali compounds
Potassium
sensitive to shock
sodium
sensitive to shock
Violent reactions possible with:
phosphines
bis(dimethylamino)dimethyl tin
nonmetallic hydrogen compounds
Powdered metals
Light metals
Ketones
mineral acids
Strong oxidizing agents
semimetallic hydrogen compounds
10.4 Conditions to avoid
Conditions to avoid : no information available
10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products
In the event of fire: see section 5



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.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Chloroform-D1-Deuteration:

Toxicity to algae/aquatic plants

ErC50 (Chlamydomonas reinhardtii (green algae)): 13,3 mg/l

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Remarks: (ECHA)

The value is given in analogy to the following substances:

The value is given in analogy to the following substances: Chloroform

Toxicity to microorganisms

EC50 (activated sludge): 0,48 mg/l

Exposure time: 24 h

Test Type: static test

Remarks: (ECHA)

The value is given in analogy to the following substances:

The value is given in analogy to the following substances: Chloroform

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC: 6,3 mg/l

End point: reproduction rate

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Analytical monitoring: yes

Remarks: (ECHA)

The value is given in analogy to the following substances:

The value is given in analogy to the following substances: Chloroform

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

Chloroform-D1-Deuteration:

Biodegradability : Test Type: aerobic

Inoculum: Sewage sludge

Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 0 %

Exposure time: 14 d

Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Components:

Chloroform-D1-Deuteration:

Partition coefficient: octanol/water

log Pow: 1,5 (20 °C)

Method: Regulation (EC) No. 440/2008, Annex, A.8

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

No data available

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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.

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1888
IMDG : UN 1888
IATA : UN 1888

14.2 UN proper shipping name

ADR : CHLOROFORM
IMDG : CHLOROFORM
IATA : Chloroform

14.3 Transport hazard class(es)

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

14.4 Packing group

ADR : III
Packing group : III
Classification Code : T1
Hazard Identification Number : 60

Labels : 6.1
Tunnel restriction code : (E)

IMDG : III
Packing group : III

Labels : 6.1
EmS Code : F-A, S-A

IATA (Cargo) : 680
Packing instruction (cargo aircraft) : 680

Packing instruction (LQ) : Y680

Packing group : III
Labels : Division 6.1 - Toxic substances

IATA_P (Passenger) : 680
Packing instruction (passenger aircraft) : 680

Packing instruction (LQ) : Y680
Packing group : III

Labels : Division 6.1 - Toxic substances

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14.5 Environmental hazards

ADR

Environmentally

: no

hazardous

IMDG

Marine pollutant

: no

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)

Conditions of restriction for the following entries should be considered:

Number on list 3

Number on list 32: ChloroformD1-Deuteration

Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

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.

H2 ACUTE TOXIC

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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