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Email: info@ottokemi.com Web: www.ottokemi.com

Creation Date: 26-06-2025 Revision Date: 25-11-2

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Carbon tetrachloride, 99%

Product Code: C 1626 CAS No: 56-23-5

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

Acute toxicity, (Category 3) Acute toxicity, (Category 3) Acute toxicity, (Category 3)

Skin sensitization, (Sub-category

1B)

Carcinogenicity, (Category 2) Specific target organ toxicity repeated exposure, (Category 1),

Liver, Kidney

Long-term (chronic) aquatic hazard, (Category 3)

Hazardous to the ozone layer,

(Category 1)

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram Signal Word Hazard Statements

H301 + H311 + H331 H317

H351 H372

H412 H420

Precautionary Statements

P273 P280

P301 + P310 P302 + P352 + P312 H301: Toxic if swallowed.

H331: Toxic if inhaled.

H311: Toxic in contact with skin.

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer. H372: Causes damage to organs through prolonged or repeated exposure if inhaled.

H412: Harmful to aquatic life with long

lasting effects.

H420: Harms public health and the environment by destroying ozone in the

upper atmosphere.

Danger

Toxic if swallowed, in contact with skin or if inhaled.

May cause an allergic skin reaction. Suspected of causing cancer.

Causes damage to organs (Liver, Kidney) through prolonged or

repeated exposure if inhaled.

Harmful to aquatic life with long lasting effects.

Harms public health and the environment by destroying ozone

in the upper atmosphere.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/

doctor if you feel unwell.

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P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor.

P502 Refer to manufacturer or supplier for information on recovery or

Danger

protection.

recycling.

none

May cause an allergic skin reaction.

Causes damage to organs through prolonged or repeated

Harmful to aquatic life with long lasting effects.

for breathing. Call a POISON CENTER/ doctor.

Toxic if swallowed, in contact with skin or if inhaled.

Harms public health and the environment by destroying ozone

Wear protective gloves/ protective clothing/ eye protection/ face

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

IF INHALED: Remove person to fresh air and keep comfortable

Refer to manufacturer or supplier for information on recovery or

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/

Suspected of causing cancer.

exposure if inhaled.

in the upper atmosphere.

doctor if you feel unwell.

recycling. none

Supplemental Hazard

Statements

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word

Hazard Statements

H317 H351

H372

H420

H412

H301 + H311 + H331

Precautionary Statements

P280

P301 + P310

P302 + P352 + P312

P304 + P340 + P311

P502

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.

Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No.

Synonyms : Tetrachloromethane

Formula : CCI4 Molecular weight 153,82 g/mol CAS-No. : 56-23-5 : 200-262-8

Component	Classification	Concentration
Carbon tetrachloride		
CAS-No. 56-23-5 EC-No.200-262-8	Acute Tox. 3; Skin Sens. 1B; Carc. 2; STOT RE 1; Aquatic Chronic 3; Ozone 1; H301, H331, H311, H317, H351, H372, H412, H420 Concentration limits: >= 1 %: STOT RE 1, H372; 0,2 - < 1 %: STOT RE 2. H373:	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material 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. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

Carbon oxides

Hydrogen chloride gas

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice 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.

5.4 Further information

Suppress (knock down) gases/vapors/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 Advice for non-emergency personnel: Do not breathe vapors, 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

Do not let product enter drains.

6.3 Methods and materials for containment and 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 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.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic

hazardous materials

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

Ingredients with workplace control parameters

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). Safety glasses Skin protection

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, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Viton®

Minimum layer thickness: 0,7 mm

Break through time: 480 min

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, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm Break through time: 240 min

Body Protection protective clothing Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepeneur 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.

Control of environmental exposure Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Physical state liquid b) Color colorless c) Odor sweet

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Melting point/ range: -23 °C - lit. d) Melting point/freezing point

e) Initial boiling point 76 - 77 °C - lit.

and boiling range f) Flammability (solid, No data available

gas) g) Upper/lower No data available

flammability or explosive limits

h) Flash point No data available i) Autoignition No data available

j) Decomposition No data available temperature

No data available k) pH I) Viscosity

Viscosity, kinematic: No data available Viscosity, dynamic: 0,928 mPa.s at 25 °C1,321 mPa.s at 0 °C

m) Water solubility 0,8461 g/l at 20 °C

log Pow: 2,83 at 25 °C n) Partition coefficient: n-octanol/water

o) Vapor pressure 45 hPa at 0,3 °C 120 hPa at 19,8 °C 14.549 hPa at 24 °C p) Density 1,594 g/cm3 at 25 °C - lit. Relative density No data available q) Relative vapor No data available

density r) Particle No data available

characteristics s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

9.2 Other safety information Surface tension 26,7 mN/m at 20 °C 19,5 mN/m at 80 °C

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

Risk of explosion with:

Alkali metals

calcium silicide

temperature

powdered aluminium

. Barium **Boranes**

halogen-halogen compounds

peroxi compounds

Fluorine

powdered magnesium Powdered metals

sodium amide

silanes

silver perchlorate

nitrogen dioxide

alkenes Oxygen

(as liquefied gas)

Oxygen with

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alkali hydroxides

calcium hypochlorite with heat

Violent reactions possible with:

Alkaline earth metals

Dimethylformamide

aluminium chloride

with

triethylaluminium

10.4 Conditions to avoid

no information available 10.5 Incompatible materials

various plastics, Light metals, metal alloys, Metals

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.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish mortality LC50 - Danio rerio (zebra fish) - 24,3 mg/l - 96 h

Toxicity to daphnia

and other aquatic

invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 35 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae Growth inhibition EC50 - Algae - 20 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to

fish(Chronic toxicity)

NOEC - Danio rerio (zebra fish) - 2,5 mg/l - 14 d

Toxicity to daphnia

and other aquatic

invertebrates(Chronic toxicity)

NOEC - Daphnia magna (Water flea) - 3,1 mg/l - 21 d

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Bioaccumulation Lepomis macrochirus (Bluegill) - 21 d

- 52,3 μg/l(Carbon tetrachloride)

Bioconcentration factor (BCF): 30

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB 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

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Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

IATA: 6.1

IATA: II

IATA: no

12.7 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1846 IMDG: 1846 IATA: 1846

14.2 UN proper shipping name

ADR/RID: CARBON TETRACHLORIDE IMDG: CARBON TETRACHLORIDE

IATA: Carbon tetrachloride

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1
14.4 Packaging group
ADR/RID: II IMDG: II

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant; yes

14.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : No data available

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

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

1907/2006.

Authorisations and/or restrictions on use

Regulation (EU) No 2024/590 on substances that

deplete the ozone layer

: Carbon tetrachloride

National legislation

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

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or

stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

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.

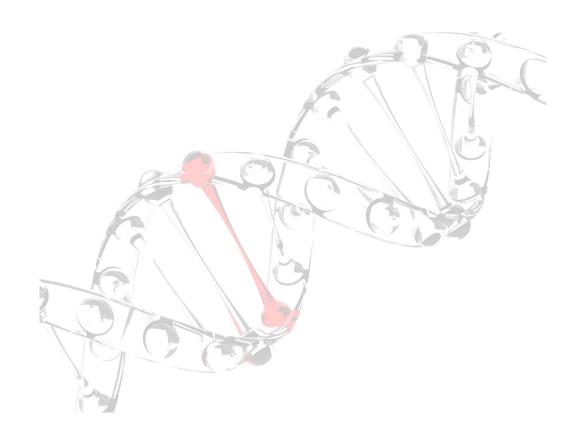
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