CAS No: 56-23-5 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

:

CAS No : 56-23-5 Product code : 00071

Synonyms : Tetrachloromethane

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699

info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.3; R40 T; R23/24/25 T; R48/23 N; R59 R52/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols





T - Toxic

N -Dangerous for the environment

R-phrases

: R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R40 - Limited evidence of a carcinogenic effect

R48/23 - Toxic: danger of serious damage to health by prolonged exposure through

inhalation

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

R59 - Dangerous for the ozone layer

S-phrases : S23 - Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified

by the manufacturer)

S36/37 - Wear suitable protective clothing and gloves

S45 - In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible)

S59 - Refer to manufacturer/supplier for information on recovery/recycling

S61 - Avoid release to the environment. Refer to special instructions/safety data

sheets

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If you feel unwell, seek medical advice. Rinse mouth out with water.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : Toxic if inhaled.

Symptoms/injuries after skin contact : Toxic in contact with skin. Symptoms/injuries after ingestion : Toxic if swallowed.

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 : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

6.2. Environmental precautions

Harmful to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

Protect from moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 153.82 g/mol Colour : Clear Colorless.

Odour : chloroform-like.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : 12.8

Melting point : -23 °C

Freezing point : No data available

Boiling point : 76 - 77

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : 100 °C

Flammability (solid, gas) : No data available

Vapour pressure : 121.3 hPa at 20°C

Relative vapour density at 20 °C : 5.31

Relative density : No data available

Density : 1.59 g/cm³ Solubility : Water: Insoluble

Log Pow : 2.83

Viscosity, kinematic : No data available
Viscosity, dynamic : 0.97 Pa.s 20 °C

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic by inhalation, in contact with skin and if swallowed.

Irritation : Not classified
Corrosivity : Not classified
Sensitisation : Not classified

Repeated dose toxicity : Toxic: danger of serious damage to health by prolonged exposure through

inhalation.

Carcinogenicity : Limited evidence of a carcinogenic effect.

Mutagenicity : Not classified
Toxicity for reproduction : Not classified

Potential adverse human health effects

and symptoms

: Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : Dangerous for the ozone layer.

Ecology - water : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

| CARBON TETRA CHLORIDE FOR HPLC & SPECTROSCOPY (56-23-5) | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

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12.3. Bioaccumulative potential

CARBON TETRA CHLORIDE FOR HPLC & SPECTROSCOPY (56-23-5)

Log Pow 2.83

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal : Dispose of contents/container to ...

recommendations

Ecology - waste materials

: Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1846 UN-No. (IMDG) : 1846 UN-No.(IATA) : 1846 UN-No.(ADN) : 1846 UN-No. (RID) : 1846

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CARBON TETRACHLORIDE
Proper Shipping Name (IMDG) : CARBON TETRACHLORIDE
Proper Shipping Name (IATA) : CARBON TETRACHLORIDE
Proper Shipping Name (ADN) : CARBON TETRACHLORIDE
Proper Shipping Name (RID) : CARBON TETRACHLORIDE

Transport document description (ADR) : UN 1846 CARBON TETRACHLORIDE, 6.1, II, (D/E)

Transport document description (IMDG) : UN 1846 CARBON TETRACHLORIDE, 6.1, II, MARINE POLLUTANT

Transport document description (IATA) : UN 1846 CARBON TETRACHLORIDE, 6.1, II

Transport document description (ADN) : UN 1846 CARBON TETRACHLORIDE, 6.1, II

Transport document description (RID) : UN 1846 CARBON TETRACHLORIDE, 6.1, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



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IMDG

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



ADN

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1



RID

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : Yes (IMDG only)

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : T1

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Limited quantities (ADR) : 100ml Excepted quantities (ADR) : E4

: P001. IBC02 Packing instructions (ADR) Mixed packing provisions (ADR) : MP15 Portable tank and bulk container : T7

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

: TP2

Tank code (ADR) : I4BH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT Transport category (ADR) : 2

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9, S19

(ADR)

Hazard identification number (Kemler No.)

Orange plates

60 1846

Tunnel restriction code (ADR) : D/E

EAC code : 2Z

- Transport by sea

Limited quantities (IMDG) : 100 ml Excepted quantities (IMDG) : E4 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP2 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-A Stowage category (IMDG) : A Stowage and handling (IMDG) : SW2 MFAG-No : 151

- Air transport

PCA Excepted quantities (IATA) : E4 PCA Limited quantities (IATA) : Y641 PCA limited quantity max net quantity : 1L

(IATA)

PCA packing instructions (IATA) : 654 : 5L PCA max net quantity (IATA) CAO packing instructions (IATA) : 661 CAO max net quantity (IATA) : 60L ERG code (IATA) : 6L

- Inland waterway transport

: T1 Classification code (ADN) Special provisions (ADN) : 802 : 100 ml Limited quantities (ADN) : E4 Excepted quantities (ADN) Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02

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Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : T1 Limited quantities (RID) : 100ml Excepted quantities (RID) : E4

Packing instructions (RID) : P001, IBC02 : MP15

Mixed packing provisions (RID) Portable tank and bulk container : T7

instructions (RID)

: TP2

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : L4BH Special provisions for RID tanks (RID) : TU15 Transport category (RID) : 2

Special provisions for carriage - Loading

and unloading (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE5 Hazard identification number (RID) : 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according

to AwSV, Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

| , | |
|---|--|
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed |
| R40 | Limited evidence of a carcinogenic effect |
| R48/23 | Toxic: danger of serious damage to health by prolonged exposure through inhalation |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R59 | Dangerous for the ozone layer |
| N | Dangerous for the environment |
| Т | Toxic |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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