

MATERIAL SAFETY DATA SHEET

TRICHLOROETHYLENE 99% Purified **MSDS CAS : 79-01-6**

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : TRICHLOROETHYLENE 99% Purified

CAS#: 79-01-6

C.I. No.: Not available.

Synonym : Not available.

Chemical Name: Not available.

Chemical Formula: CHCL:CCL₂

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
TRICHLOROACETIC ACID 20% W/V AR	-	100%

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : Carc. Cat. 2; R45
Muta. Cat. 3; R68
R67
Xi; R36/38
R52-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Germ cell mutagenicity - Category 2 - Warning (CLP : Muta. 2) H341
Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3-
Warning (CLP : STOT SE 3) H336
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP :
Aquatic Chronic 3) H412

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Section 4: First Aid Measures

Description of first aid measures

Inhalation

Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash contaminated clothing before reuse. Wash with plenty of soap and water.

Eye contact

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

Ingestion :

Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

Section 4: First Aid Measures (Continued)

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : May cause cancer.
Suspected of causing genetic defects.
Causes serious eye irritation.
Causes skin irritation.
May cause drowsiness or dizziness.

Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Section 5: Fire and Explosion Data

Extinguishing media

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment,
Including respiratory protection.

Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject)
Fire-fighting water to enter environment.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.
Avoid breathing dust, fume, gas, mist, vapours, spray.

For non-emergency personnel : Evacuate unnecessary personnel.

Section 6: Accidental Release Measures (Continued)

Environmental precautions

Environmental precautions

- : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- Avoid release to the environment.

Methods and materials for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Section 7: Handling and Storage

Precautions for safe handling

Handling

- : Wash thoroughly after handling. Obtain special instructions before use.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.

Technical protective measures

- : Provide good ventilation in process area to prevent formation of Vapor.

Special precautions

- : Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities

Storage

- : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

Storage - away from

- : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Specific end uses

Specific end use(s)

- : None.

Section 8: Exposure Controls/Personal Protection

Personal protection

• Respiratory protection

- : Avoid all unnecessary exposure.
- : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

• Hand protection

- : Wear protective gloves.

Section 8: Exposure Controls/Personal Protection (Continued)

- Skin protection : Wear suitable protective clothing.
 - Eye protection : Chemical goggles or safety glasses.
 - Others : When using, do not eat, drink or smoke.
- Control parameters
- Occupational Exposure Limits : No data available.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Color	: Clear Colourless
Odor	: N/A
Odor threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -84°C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 410°C
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 86.7 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 81.3 hPa at 20°C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: 1,463
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.

Section 9: Physical and Chemical Properties (Continued)

Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A
Molecular Weight	: 131.39

Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 10,50%
Explosion limits - lower [%]	: 8%
Oxidizing properties	: No data available.

Section 10: Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions : Not established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

• Inhalation : Based on available data, the classification criteria are not met.

Section 11: Toxicological Information (Continued)

• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes serious eye irritation. Causes skin irritation.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity

Toxicity information : Harmful to aquatic life with long lasting effects.

Persistence – degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

Bio accumulative potential

Bio accumulative potential : Not established.

Mobility in soil

Mobility in soil : Not established.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects

Environmental precautions: Avoid release to the environment.

Section 13: Disposal Considerations

Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	: TRICHLOROETHYLENE
UN N°	: 1710
H.I. nr	: 60
ADR - Class	: 6.1
Labelling - Transport	: 6.1 : Toxic substances.
ADR - Group	: III

Sea transport (IMDG)

Proper shipping name	: TRICHLOROETHYLENE
UN N°	: 1710
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: III

Air transport (ICAO-IATA)

Proper shipping name	: TRICHLOROETHYLENE
UN N°	: 1710
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III

Section 15: Other Regulatory Information

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

Safety, health and environmental: Ensure all national/local regulations are observed.

**Regulations/legislation specific for
The substance or mixture**

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorization - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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