



SAFETY DATA SHEET
PERCHLOROETHYLENE

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Issued: 22/03/2004
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: PERCHLOROETHYLENE
CAS number: 127-18-4
EINECS number: 204-825-9
Index number: 602-028-00-4
Product code: PERC
Synonyms: TETRACHLOROETHYLENE
ETHYLENE TETRACHLORIDE

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: PERCHLOROETHYLENE >90%

3. HAZARDS IDENTIFICATION

Main hazards: Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure hazards: In combustion emits toxic fumes.

[cont...]

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Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Occupational exposure limits**

TWA (8 hr exposure limit): 345 mg/m³ (OES)

STEL (15 min exposure limit): 689 mg/m³ (OES)

Engineering measures: The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Boiling point/range°C: 121

Melting point/range°C: -22

Flash point°C: NONE

Autoflammability°C: NONE

Vapour pressure: 13MMHG/20°C

Relative density: 1.619

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

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IPR RAT LD50 4678 mg/kg
ORL MUS LD50 8100 mg/kg
ORL RAT LD50 2629 mg/kg**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Mobility:** Readily absorbed into soil.**Persistence and degradability:** Not biodegradable.**Bioaccumulative potential:** Bioaccumulation potential.**Other adverse effects:** Toxic to aquatic organisms. Toxic to soil organisms.**13. DISPOSAL CONSIDERATIONS****Disposal of packaging:** Arrange for collection by specialised disposal company.**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID**

UN no: 1897	ADR Class: 6.1
Packing group: III	Classification code: T1
Shipping name: TETRACHLOROETHYLENE	
Labelling: 6.1	Hazard ID no: 60

**IMDG / IMO**

UN no: 1897	Class: 6.1
Packing group: III	EmS: F-A,S-A
Marine pollutant: P	Labelling: 6.1

IATA / ICAO

UN no: 1897	Class: 6.1
Packing group: III	Packing instructions: 605(P&CA); 612(CAO)
Labelling: 6.1	

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15. REGULATORY INFORMATION

Hazard symbols: Dangerous for the environment.

Harmful.



Risk phrases: R40: Limited evidence of a carcinogenic effect.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S36/37: Wear suitable protective clothing and gloves.

S53: Avoid exposure - obtain special instructions before use.

S57: Use appropriate container to avoid environmental contamination.

S60: This material and its container must be disposed of as hazardous waste.

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

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.