Product Stewardship Summary

Tetrachloroethylene

Chemical Name:	Tetrachloroethylene
Synonyms:	Perchloroethylene, PCE
CAS Number:	127-18-4
EC (EINECS) Number:	204-825-9
Revision Number:	1-2026

Chemical identification and uses

Tetrachloroethylene, also known as perchloroethylene (PCE), is a colorless liquid with a characteristic odor. It is primarily used as a solvent in dry cleaning and metal degreasing, as well as in the production of other chemicals.

Potential exposures

Exposure to tetrachloroethylene can occur in industrial and laboratory settings, primarily through inhalation, skin, and eye contact. Proper handling and adherence to safety practices are essential to minimize exposure.

Human Health hazards

- Acute toxicity: Harmful if swallowed. Toxic if inhaled.
- Skin and eye irritation: Causes skin irritation and serious eye irritation. May cause an allergic skin reaction.
- Carcinogenicity: Classified as a probable human carcinogen (Group 2A) by IARC. Confirmed as an animal carcinogen by ACGIH.
- Specific target organ toxicity: May cause drowsiness or dizziness. Affects the central nervous system.
- ACGIH has established Time Weighted Average of 25 ppm.

Product Stewardship Summary

Environmental Health hazards

- Aquatic toxicity: Toxic to fish and aquatic invertebrates. LC50 for fish (Oncorhynchus mykiss) is 5 mg/l (96 h).
- Persistence and degradability: Not readily biodegradable. May persist in the environment.
- Bioaccumulation: Has the potential to bioaccumulate in aquatic organisms.
- Environmental precautions: Prevent release into the environment. Proper containment measures should be implemented to avoid contamination.

For more detailed safety and regulatory information, please refer to the Safety Data Sheet (SDS) or contact Solstice at PSCustomerCare@Solstice.com. Additional information can also be found on PubChem.

Tetrachloroethylene | Cl2C=CCl2 | CID 31373 - PubChem