1,1,2-trichlorotrifluoroethane

IDENTIFICATION NUMBERS

- **CAS:** 76-13-1
- **EC/EINECS:** 200-936-1
- **International Chemical Safety Card (ICSC):** 0050

MORE INFORMATION

- **Molecular Formula:** C2Cl3F3
- **Synonyms:** 1,1,2-TRICLORO-1,2,2-TRIFLUORETANO, CFC-113, freon 113

USES

insulation, degreaser, solvent, cleaner

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

No classifications available

Specific health risks

Occupational Exposure Limits (OEL)

Daily exposure limit values (VLA-ED) published by the Spanish National Institute of Safety and Health at Work (INSST). They represent the average concentration of a chemical agent in the worker's breathing zone, measured or calculated in a time-weighted manner for an 8-hour daily working period. (https://www.insst.es/valores-limites-de-exposicion)

OCCUPATIONAL EXPOSURE LIMITS

State / Form	TWA (ppm)	TWA (mg/m³)	STEL (ppm)	STEL (mg/m³)	Notes
—	1000	7795	1250	9745	—

Specific environmental risks

Ozone layer damage

Substances that cause damage to the stratospheric ozone layer, classified with H420 phrase under the CLP Regulation. Mainly includes substances regulated by the Montreal Protocol such as chlorofluorocarbons (CFCs), halons and others.

Environmental regulations

LPCIC (EPER)

Priority substances and specific pollutants within the EU water policy framework, established by the Water Framework Directive (2000/60/EC) and the Priority Substances Directive (2008/105/EC and amendments). Substances posing significant risk to European surface waters and subject to Environmental Quality Standards (EQS).

EPER WATER	EPER AIR
1	

EPER Water

Substances from List 1 of Annex III of the IPPC Directive (integrated into the Industrial Emissions Directive 2010/75/EU). Atmospheric pollutants —including SO_2, NOx, heavy metals and organic compounds— that must be taken into account when setting emission limit values for IPPC installations.