

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** Tetrachloroethene for IR**Article number:** TE0126**CAS Number:**

127-18-4

**EC number:**

204-825-9

**Index number:**

602-028-00-4

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory reagent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa

08181 Sentmenat (Barcelona) SPAIN

Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65

email: scharlab@scharlab.com

Internet Web Site: www.scharlab.com

**Regional representation:**

Scharlab, S.L.

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**Further information obtainable from:** technical department**1.4 Emergency telephone number:**

Please contact the regional Scharlab distributor/dealer in your country

During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Carc. 2

H351 Suspected of causing cancer.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

(Contd. on page 2)

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Version number 2.0

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**Trade name:** Tetrachloroethene for IR

(Contd. of page 1)

STOT SE 3      H336 May cause drowsiness or dizziness.

**2.2 Label elements****• Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**• Hazard pictograms**

GHS07   GHS08   GHS09

**• Signal word** Warning**• Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**• Precautionary statements**

P261      Avoid breathing dust/fume/gas/mist/vapours/spray.

P280      Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P304+P340      IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405      Store locked up.

P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

**• 2.3 Other hazards****• Results of PBT and vPvB assessment****• PBT:** Not applicable.**• vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****• 3.1 Chemical characterisation: Substances****• CAS No. Description**

127-18-4 tetrachloroethylene

**• Identification number(s)****• EC number:** 204-825-9**• Index number:** 602-028-00-4**SECTION 4: First aid measures****• 4.1 Description of first aid measures****• After inhalation:** Supply fresh air; consult doctor in case of complaints.**• After skin contact:** Generally the product does not irritate the skin.**• After eye contact:** Rinse opened eye for several minutes under running water.**• After swallowing:** If symptoms persist consult doctor.**• 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

(Contd. on page 3)

## Safety data sheet according to 1907/2006/EC, Article 31

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Version number 2.0

Revision: 02.06.2021

**Trade name:** Tetrachloroethene for IR

(Contd. of page 2)

- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  

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**127-18-4 tetrachloroethylene**  
WEL Short-term value: 275 mg/m<sup>3</sup>, 40 ppm  
Long-term value: 138 mg/m<sup>3</sup>, 20 ppm  
Sk
- **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

**Trade name:** Tetrachloroethene for IR

(Contd. of page 3)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Fluid
  - Colour:** Colourless
- **Odour:** Like chlorine
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/freezing point:** -23.5 °C
  - Initial boiling point and boiling range:** 121.1 °C
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapour pressure at 20 °C:** 19 hPa
- **Density at 20 °C:** 1.6063 g/cm<sup>3</sup>

(Contd. on page 5)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

**Trade name:** Tetrachloroethene for IR

(Contd. of page 4)

- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water at 20 °C:** 0.4 g/l
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Strong oxidizing agents.  
Bases
- **10.6 Hazardous decomposition products:**  
Carbon oxides  
Hydrogen chloride (HCl)

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**  
Oral LD50 3385 mg/kg (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Skin - Rabbit  
Result: Irritating to skin - 4h  
Causes skin irritation.
- **Serious eye damage/irritation**  
Eyes - Rabbit  
Slight eye irritation - 4 h  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
Sensibilizing test - Mouse  
Result: positive  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
Chinese hamster - Ovary cells  
Result: negative  
Mouse - Other type of cells  
Result: negative

(Contd. on page 6)

**Safety data sheet**  
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Printing date 07.06.2021

Version number 2.0

Revision: 02.06.2021

**Trade name:** Tetrachloroethene for IR

(Contd. of page 5)

- **Carcinogenicity**  
IARC: 2A group: Probably carcinogenic to humans.  
Suspected of causing cancer.
- **Reproductive toxicity** 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**

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Toxicity to fish  
LC50 - *Oncorhynchus mykiss* (*Trucha irisiada*) - 5 mg/L - 96 h  
Toxicity to daphnia and other aquatic invertebrates  
EC50 static test - *Ceriodaphnia* (Water flea) - 7.5 mg/L - 48 h  
Toxicity to algae  
CE50 static test - *Skeletonema costatum* - 16 mg/L - 7 h
- **12.2 Persistence and degradability**  
Aerobic - Exposure time: 28 d  
Result: 11 % - Not easily biodegradable.  
(OECD TG 301 C)
- **12.3 Bioaccumulative potential** *Lepomis macrochirus* - 0.00343 mg/L - 21 d
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** Toxic to water organisms, with long term harmful effects.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA**

UN1897

(Contd. on page 7)

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 2.0

Revision: 02.06.2021

**Trade name:** Tetrachloroethene for IR

(Contd. of page 6)

**14.2 UN proper shipping name****ADR****IMDG****IATA****14.3 Transport hazard class(es)****ADR, IMDG****Class****Label**

1897 TETRACHLOROETHYLENE,  
ENVIRONMENTALLY HAZARDOUS  
TETRACHLOROETHYLENE, MARINE  
POLLUTANT  
TETRACHLOROETHYLENE

6.1 Toxic substances.

6.1

**IATA****Class****Label****14.4 Packing group****ADR, IMDG, IATA****14.5 Environmental hazards:**

6.1 Toxic substances.

6.1

**Marine pollutant:****Special marking (ADR):****14.6 Special precautions for user****Hazard identification number (Kemler code):****EMS Number:****Segregation groups****Stowage Category****Stowage Code****14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

III

Environmentally hazardous substance, liquid;  
Marine Pollutant

Yes (P)

Symbol (fish and tree)

Symbol (fish and tree)

Warning: Toxic substances.

60

6.1-02

Liquid halogenated hydrocarbons

A

SW2 Clear of living quarters.

Not applicable.

**Transport/Additional information:****ADR****Limited quantities (LQ)****Transport category****Tunnel restriction code****UN "Model Regulation":**

5L

2

E

UN 1897 TETRACHLOROETHYLENE, 6.1, III,  
ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Named dangerous substances - ANNEX I -****Seveso category E2 Hazardous to the Aquatic Environment****Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

(Contd. on page 8)

## Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 2.0

Revision: 02.06.2021

**Trade name:** Tetrachloroethene for IR

(Contd. of page 7)

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Classification according to Regulation (EC) No 1272/2008**  
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- **Department issuing SDS:** product safety department
- **Contact:** msds@scharlab.com
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
P: Marine Pollutant  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2