according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

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, Multisolvent® HPLC grade UV-VIS
- · Article number: TE0127
- · 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.
 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
- 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. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.

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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.

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• **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:
- CO2, 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:
- 127-18-4 tetrachloroethylene
- WEL Short-term value: 275 mg/m³, 40 ppm Long-term value: 138 mg/m³, 20 ppm Sk
- · Additional information: The lists valid during the making were used as basis.

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- 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:

Colour:

- Odour:
 Odour threshold:
- · pH-value:
- Change in condition Melting point/freezing point: -23.5 °C Initial boiling point and boiling range: 121.1 °C
- · Flash point:
- Flammability (solid, gas):
- · Decomposition temperature:
- · Auto-ignition temperature:
- · Explosive properties:
- Explosion limits: Lower: Upper:
- · Vapour pressure at 20 °C:
- Density at 20 °C:

Fluid Colourless Like chlorine Not determined.

Not determined.

Not applicable.

Not applicable.

Not determined.

Not determined.

Product does not present an explosion hazard.

Not determined. Not determined.

19 hPa

1.6063 g/cm³

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Relative density
 Vapour density

- · Evaporation rate
- Solubility in / Miscibility with water at 20 °C:

0.4 g/l

Not determined.

Not determined.

Not determined.

 Viscosity: Dynamic: Kinematic:

Not determined. Not determined.

Not determined.

9.2 Other information

· Partition coefficient: n-octanol/water:

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 (HCI)

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 (carcinogenity, mutagenicity and toxicity for reproduction)

wise

- Germ cell mutagenicity Chinese hamster - Ovary cells Result: negative Mouse - Other type of cells
- Result: negative

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Trade name: Tetrachloroethene, Multisolvent® HPLC grade UV-VIS

· 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.
- Ecotoxical 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

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Trade name: Tetrachloroethene, Multisolvent® HPLC grade UV-VIS

- · 14.2 UN proper shipping name
- · ADR
- · IMDG · IATA
- 14.3 Transport hazard class(es)
- · ADR, IMDG



1897 TETRACHLOROETHYLENE, ENVIRONMENTALLY HAZARDOUS TETRACHLOROETHYLENE, MARINE POLLUTANT TETRACHLOROETHYLENE

- · Class · Label
- · IATA



- Class
 Label
 14.4 Packing group
 ADR, IMDG, IATA
 14.5 Environmental hazards:
- · Marine pollutant:
- · Special marking (ADR):
- 14.6 Special precautions for user
- Hazard identification number (Kemler code): 60
- · EMS Number:
- · Segregation groups
- Stowage Category
- · Stowage Code
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Transport/Additional information:
- · ADR
- · Limited quantities (LQ)
- Transport category
- Tunnel restriction code
- **UN "Model Regulation":**

6.1 Toxic substances.6.1

6.1 Toxic substances.

6.1

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.

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

5L

2

- · 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

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wise choice

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he wise choice

- 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

ne wise choic

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 wise cho 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

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