

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 10-Dec-2009

Revision Date 18-Oct-2023

Revision Number 17

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

| Product Description: | Tetrachloroethylene, UV spectroscopy |
|---------------------------|--------------------------------------|
| Cat No. : | T/0605/PB17 |
| Synonyms | Perchloroethylene |
| Index No | 602-028-00-4 |
| CAS No | 127-18-4 |
| EC No | 204-825-9 |
| Molecular Formula | C2 Cl4 |
| REACH registration number | 01-2119475329-28 |

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

| Recommended Use Sector of use | Laboratory chemicals. SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites |
|----------------------------------|---|
| Product category | PC21 - Laboratory chemicals |
| Process categories | PROC15 - Use as a laboratory reagent |
| Environmental release category | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) |
| Uses advised against | No Information available |

1.3. Details of the supplier of the safety data sheet

Company

UK entity/business name Fisher Scientific UK Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name

Thermo Fisher Scientific Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

Tel: 01509 231166 Chemtrec US: (800) 424-9300 Chemtrec EU: 001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Tetrachloroethylene, UV spectroscopy

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Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Skin Sensitization Carcinogenicity Specific target organ toxicity - (single exposure)

Environmental hazards

Chronic aquatic toxicity

Category 2 (H315) Category 2 (H319) Category 1 (H317) Category 2 (H351) Category 3 (H336)

Category 2 (H411)

Full text of Hazard Statements: see section 16



Signal Word

Warning

Hazard Statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H351 Suspected of causing cancer
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

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

- P312 Call a POISON CENTER or doctor if you feel unwell
- P280 Wear protective gloves/protective clothing/eye protection/face protection

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

Toxicity to Soil Dwelling Organisms

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| Component | CAS No | EC No | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|---------------------|----------|-------------------|----------|--|
| Tetrachloroethylene | 127-18-4 | EEC No. 204-825-9 | <=100 | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) STOT SE 3 (H336) Carc. 2 (H351) Aquatic Chronic 2 (H411) |

| REACH registration number | 01-2119475329-28 |
|---------------------------|------------------|

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| General Advice | If symptoms persist, call a physician. |
|------------------------------------|---|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |
| 4.2. Most important symptoms and | effects, both acute and delayed |
| | None reasonably foreseeable. May cause allergic skin reaction. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing |

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically. Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated.

Hazardous Combustion Products

Chlorine, Phosgene, Hydrogen chloride gas.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

Technical Rules for Hazardous Substances (TRGS) 510Class 10Storage Class (LGK) (Germany)Class 10

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

| Component | The United Kingdom | European Union | Ireland |
|---------------------|------------------------------------|------------------------------------|------------------------------------|
| Tetrachloroethylene | STEL: 40 ppm 15 min | TWA: 138 mg/m ³ (15min) | TWA: 20 ppm 8 hr. |
| | STEL: 275 mg/m ³ 15 min | TWA: 20 ppm (15min) | TWA: 138 mg/m ³ 8 hr. |
| | TWA: 20 ppm 8 hr | STEL: 275 mg/m ³ (8h) | STEL: 40 ppm 15 min |
| | TWA: 138 mg/m ³ 8 hr | STEL: 40 ppm (8h) | STEL: 275 mg/m ³ 15 min |
| | Skin | Skin | Skin |

Biological limit values

List source(s):

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

Workers; See table for values

Predicted No Effect Concentration (PNEC)

| See va | lues | be | low. | |
|--------|------|----|------|--|
| | | | | |

| Component | Fresh water | Fresh water sediment | | Microorganisms in sewage treatment | |
|---|------------------|-------------------------------------|----------------------|---------------------------------------|-----------------------------|
| Tetrachloroethylene 127-18-4 (<=100) | PNEC = 0.051mg/L | PNEC = 0.903mg/kg sediment dw | PNEC = 0.0364mg/L | PNEC = 11.2mg/L | PNEC = 0.01mg/kg soil dw |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|---------------------|--------------|--------------------------|------------------------------|------------|------------------------|
| Tetrachloroethylene | PNEC = | PNEC = | | | $PNEC = 8.2 \mu g/m^3$ |
| 127-18-4(<=100) | 0.0051mg/L | 0.0903mg/kg | | | |
| | | sediment dw | | | |

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

| Personal protective equipment Eye Protection | Goggles (European standard - EN 166) |
|---|--------------------------------------|
| Hand Protection | Protective gloves |

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| Glove material Breakt | brough time | Glove thickness | EU standard | Glove comments | | | |
|------------------------------------|----------------|-------------------------|---------------------|--|--|--|--|
| | 0 minutes | 0.38 mm | Level 6 | As tested under EN374-3 Determination of | | | |
| | 0 minutes | 0.3 mm | EN 374 | Resistance to Permeation by Chemicals | | | |
| Skin and body protection | | eved clothing. | | | | | |
| | | | | | | | |
| Inspect gloves before use. | | | | | | | |
| | | eability and breakthr | ough time which a | re provided by the supplier of the gloves. | | | |
| (Refer to manufacturer/supplier fo | | | | | | | |
| | | | | conditions, User susceptibility, e.g. | | | |
| of cuts, abrasion. | consideration | n the specific local co | onaltions under wh | ich the product is used, such as the danger | | | |
| Remove gloves with care avoiding | i skin contami | nation | | | | | |
| Kenneve glevee with eare averaling | | | | | | | |
| Respiratory Protection | When w | orkers are facing cor | ncentrations above | the exposure limit they must use | | | |
| | appropri | ate certified respirate | ors. | | | | |
| | | <i>,</i> 1 | atory protective eq | uipment must be the correct fit and be used | | | |
| | and mai | ntained properly | | | | | |
| Large scale/emergency use | Use a N | IOSH/MSHA or Euro | pean Standard EN | 1 136 approved respirator if exposure limits | | | |
| | are exce | eded or if irritation o | r other symptoms | are experienced | | | |
| | | | Organic gases ar | nd vapours filter Type A Brown conforming to | | | |
| | EN1438 | 7 | | | | | |
| Small scale/Laboratory use | Use a N | IOSH/MSHA or Euro | nean Standard EN | 1 149:2001 approved respirator if exposure | | | |
| Sinan Scale/Laboratory use | | | | toms are experienced. | | | |
| | | | | N405; or; Half mask: EN140; plus filter, EN | | | |
| | 141 | | 5 | | | | |
| | When R | PE is used a face pie | ece Fit Test should | l be conducted | | | |
| | | | | | | | |
| Environmental exposure contro | Is Prevent | product from enterin | d drains. Do not al | low material to contaminate ground water | | | |
| | system. | | | | | | |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical State | Liquid | |
|---|---|---|
| Appearance Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits | Colorless Characteristic, sweet No data available -22 °C / -7.6 °F No data available 120 - 122 °C / 248 - 251.6 °F No data available Not applicable No data available | @ 760 mmHg Liquid |
| Flash Point Autoignition Temperature Decomposition Temperature pH Viscosity Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wat Component Tetrachloroethylene | No information available No data available > 150°C No information available 0.89 mPa s at 20 °C 0.15 g/L (20°C) No information available er) log Pow 2.53 | Method - No information available practically insoluble |

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| Vapor Pressure | 18 mbar @ 20 °C | |
|----------------------------|-------------------------|-------------|
| Density / Specific Gravity | 1.625 1.619 | |
| Bulk Density | Not applicable | Liquid |
| Vapor Density | No data available | (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |
| 9.2. Other information | | |
| Molecular Formula | C2 Cl4 | |
| Molecular Weight | 165.83 | |
| Evaporation Rate | 6.0 (Ether = 1.0) | |

SECTION 10: STABILITY AND REACTIVITY

| 10.1. Reactivity | None known, based on information available |
|---|---|
| 10.2. Chemical stability | Stable under normal conditions. |
| 10.3. Possibility of hazardous react | tions_ |
| Hazardous Polymerization Hazardous Reactions | Hazardous polymerization does not occur. None under normal processing. |
| 10.4. Conditions to avoid | Incompatible products. Excess heat. Exposure to moist air or water. |
| 10.5. Incompatible materials | Strong acids. Strong oxidizing agents. Strong bases. Metals. Zinc. Amines. Aluminium. |
| 10.6 Horordous desembosition pr | |

10.6. Hazardous decomposition products

Chlorine. Phosgene. Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------|-------------------------|--------------------------|----------------------------|
| Tetrachloroethylene | LD50 = 2629 mg/kg (Rat) | LD50 > 10000 mg/kg (Rat) | LC50 = 27.8 mg/L (Rat) 4 h |
| Tetrachloroethylene | LD50 = 2629 mg/kg (Rat) | LD50 > 10000 mg/kg (Rat) | LC50 = 27.8 mg |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

| , | |
|---|---|
| Respiratory Skin | No data available No data available |
| | May cause sensitization by skin contact |
| (e) germ cell mutagenicity; | No data available |
| (f) carcinogenicity; | No data available |
| | The table below indicates whether each agency has listed any ingredient as a carcinogen |

| Component | EU | UK | Germany | IARC |
|--|---|-----------------------------|------------------------|----------|
| Tetrachloroethylene | | | Cat. 2 | Group 2A |
| (g) reproductive toxicity; | No data available | | | |
| (h) STOT-single exposure; | No data available | | | |
| Results / Target organs | Central nervous s | system (CNS). | | |
| (i) STOT-repeated exposure; Target Organs | No data available None known. | | | |
| (j) aspiration hazard; | Based on availab | le data, the classificatior | n criteria are not met | |
| Other Adverse Effects | Tumorigenic effects have been reported in experimental animals. | | | |
| Symptoms / effects,both acute and delayed | d Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing. | | | |

11.2. Information on other hazards

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Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|---------------------|---|------------|------------------|
| Tetrachloroethylene | LC50: 12.4 - 14.4 mg/L, 96h flow-through (Pimephales promelas) LC50: 8.6 - 13.5 mg/L, 96h static (Pimephales promelas) LC50: 11.0 - 15.0 mg/L, 96h static (Lepomis macrochirus) LC50: 4.73 - 5.27 mg/L, 96h flow-through (Oncorhynchus mykiss) | | ¥ |

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| Component | Microtox | M-Factor |
|---------------------|--------------------------|----------|
| Tetrachloroethylene | EC50 = 100 mg/L 24 h | |
| | EC50 = 112 mg/L 24 h | |
| | EC50 = 120.0 mg/L 30 min | |

12.2. Persistence and degradability

Persistence

treatment plant

Insoluble in water, Persistence is unlikely, based on information available. **Degradation in sewage** Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3. Bioaccumulative potential

May have some potential to bioaccumulate

| Component | log Pow | Bioconcentration factor (BCF) |
|---------------------|---------|-------------------------------|
| Tetrachloroethylene | 2.53 | 25.8 - 77.1 dimensionless |

Spillage unlikely to penetrate soil The product is insoluble and sinks in water The product 12.4. Mobility in soil contains volatile organic compounds (VOC) which will evaporate easily from all surfaces . Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

12.5. Results of PBT and vPvB Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB). assessment

12.6. Endocrine disrupting

properties Endocrine Disruptor Information

| Endoornio Bioraptor ini | | | |
|-------------------------|-----------|--|---------------------------------------|
| Compo | onent | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disruptors - Evaluated |
| | | - | Substances |
| Tetrachlor | pethylene | Group II Chemical | |

12.7. Other adverse effects **Persistent Organic Pollutant Ozone Depletion Potential**

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| Waste from Residues/Unused Products | Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. |
|--|--|
| Contaminated Packaging | Dispose of this container to hazardous or special waste collection point. |
| European Waste Catalogue (EWC) | According to the European Waste Catalog, Waste Codes are not product specific, but application specific. |
| Other Information | Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment. |

SECTION 14: TRANSPORT INFORMATION

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| IMDG/IMO | |
|---|--|
| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | UN1897 TETRACHLOROETHYLENE 6.1 III |
| ADR | |
| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> 14.4. Packing group | UN1897 TETRACHLOROETHYLENE 6.1 III |
| IATA | |
| <u>14.1. UN number</u> 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group | UN1897 TETRACHLOROETHYLENE 6.1 III |
| 14.5. Environmental hazards | Dangerous for the environment Product is a marine pollutant according to the criteria set by IMDG/IMO |
| 14.6. Special precautions for user | No special precautions required. |
| 14.7. Maritime transport in bulk according to IMO instruments | Not applicable, packaged goods |

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Tetrachloroethylene, UV spectroscopy

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component | CAS No | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|---------------------|----------|-----------|---------|---------|-------|------|----------|-------|-------|
| Tetrachloroethylene | 127-18-4 | 204-825-9 | - | - | Х | Х | KE-33294 | Х | Х |
| | | | | | | | | | |
| Component | CAS No | TSCA | TSCA In | ventory | DSL | NDSL | AICS | NZIoC | PICCS |
| | | | notific | ation - | | | | | |
| | | | Active- | nactive | | | | | |
| Tetrachloroethylene | 127-18-4 | Х | ACT | IVE | Х | - | Х | Х | Х |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---------------------|----------|---|--|---|
| Tetrachloroethylene | 127-18-4 | - | Use restricted. See item 75. (see link for restriction details) | - |

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REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report |
|---------------------|----------|---|--|
| | | Notification | Requirements |
| Tetrachloroethylene | 127-18-4 | Not applicable | Not applicable |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

See table for values

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|---------------------|---------------------------------------|--|
| Tetrachloroethylene | WGK3 | Class I : 20 mg/m ³ (Massenkonzentration) |

| Component | France - INRS (Tables of occupational diseases) |
|---------------------|---|
| Tetrachloroethylene | Tableaux des maladies professionnelles (TMP) - RG 3,RG 12 |

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|---|--|---|--|
| Tetrachloroethylene 127-18-4 (<=100) | Prohibited and Restricted Substances | Group I | |

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

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H351 - Suspected of causing cancer

H411 - Toxic to aquatic life with long lasting effects

Legend

| CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances | TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals |
|---|---|
| WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic | TWA - Time Weighted Average IARC - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC) LD50 - Lethal Dose 50% EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative |
| ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor Key literature references and sources for data https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, R | ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound) |

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers. Chemical incident response training.

| Creation Date | 10-Dec-2009 |
|------------------|-----------------|
| Revision Date | 18-Oct-2023 |
| Revision Summary | Not applicable. |

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Disclaimer

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet