

# **SAFETY DATA SHEET**

Creation Date 17-Jan-2017 Revision Date 19-Jul-2018 Revision Number 1

1. Identification

Product Name 1,1,2,2-Tetrachloroethane-d2

Cat No.: AC464210000; AC464210075

**CAS-No** 33685-54-0

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute dermal toxicity Category 1
Acute Inhalation Toxicity - Vapors Category 2

Label Elements

Signal Word

Danger

**Hazard Statements** 

Fatal in contact with skin Fatal if inhaled



**Precautionary Statements** 

### 1,1,2,2-Tetrachloroethane-d2

#### Prevention

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Do not get in eyes, on skin, or on clothing

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

#### Skin

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Gently wash with plenty of soap and water

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

#### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %			
1,1,2,2-Tetrachloro-[1,2-2H2]ethane	33685-54-0	100			

## 4. First-aid measures

Show this safety data sheet to the doctor in attendance. Immediate medical attention is **General Advice** 

required.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In **Eye Contact** 

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

> method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and

effects

. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

**Notes to Physician** 

## 5. Fire-fighting measures

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Suitable Extinguishing Media

**Unsuitable Extinguishing Media** No information available

## 1,1,2,2-Tetrachloroethane-d2

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

## **Specific Hazards Arising from the Chemical**

Very toxic. Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Hydrogen chloride gas Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**NFPA** 

Health Flammability Instability Physical hazards
4 1 1 N/A

## 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Keep people away from

and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for Containment and Clean** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. **Up** 

7. Handling and storag				
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**Handling** Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only

under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

Storage Keep container tightly closed in a dry and well-ventilated place. Store under an inert

atmosphere. Protect from moisture.

## 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

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.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor sweet

Odor Threshold

PH

No information available

No information available

Melting Point/Range No data available

Boiling Point/Range 146 °C / 294.8 °F @ 760 mmHg

Flash Point No information available Evaporation Rate No information available

Flammability (solid,gas)

Not applicable
Flammability or explosive limits

UpperNo data availableLowerNo data available

Vapor Pressure
Vapor Density
No information available
No information available

Specific Gravity 1.610

Solubility Insoluble in water Partition coefficient; n-octanol/water No data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

Molecular FormulaC2 D2 Cl4Molecular Weight169.86

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Hygroscopic. heat sensitive.

Conditions to Avoid Incompatible products. Exposure to moist air or water. Heat.

Incompatible Materials Strong oxidizing agents, Strong bases, nitrogen oxides (NOx), Metals

Hazardous Decomposition Products Hydrogen chloride gas, Carbon monoxide (CO<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>)

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

Product Information Component Information

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** No information available

**Sensitization** No information available

Revision Date 19-Jul-2018

### 1,1,2,2-Tetrachloroethane-d2

## Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
1,1,2,2-Tetrachloro-[1, 2-2H2lethane	33685-54-0	Not listed				

**Mutagenic Effects** No information available

Reproductive Effects No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard** No information available

delayed

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## Ecological information

## **Ecotoxicity**

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.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the

environment due its low water solubility. Will likely be mobile in the environment due to its

volatility.

## Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## Transport information

DOT

**UN-No** UN1702

**Proper Shipping Name** 1,1,2,2-TETRACHLOROETHANE

**Hazard Class** 6.1 **Packing Group** 

**TDG** 

UN-No UN1702

**Proper Shipping Name** 1,1,2,2-TETRACHLOROETHANE

**Hazard Class** 6.1 **Packing Group** 

IATA

**UN-No** UN1702

**Proper Shipping Name** 1,1,2,2-TETRACHLOROETHANE

**Hazard Class** 6.1 **Packing Group** Ш

### 1,1,2,2-Tetrachloroethane-d2

IMDG/IMO

UN-No UN1702

Proper Shipping Name 1,1,2,2-TETRACHLOROETHANE

Hazard Class 6.
Packing Group

## Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	IECSC	KECL
1,1,2,2-Tetrachloro-[1,2-2H2]	-	-	-	251-634-1	-		-	-	-	-	-
ethane											

#### Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Not applicable

Regulations

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

## **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs

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 Creation Date
 17-Jan-2017

 Revision Date
 19-Jul-2018

 Print Date
 19-Jul-2018

**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

## **Disclaimer**

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 SDS**