

SAFETY DATA SHEET

Creation Date 12-Nov-2014

Revision Date 27-Mar-2024

Revision Number 3

1. Identification

Product Name

1,4-Oxathiane

Cat No. : A18052

CAS No Synonyms 15980-15-1 1,4-Oxathiane

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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)

Flammable liquids

Category 3

Label Elements

Signal Word Warning

Hazard Statements Flammable liquid and vapor



Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
1,4-Oxathiane		15980-15-1	98	
	4. Fi	rst-aid measures		
General Advice	If symptoms per	rsist, call a physician.		
Eye Contact	ontact 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.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion Clean mouth with water and drink afterwards plenty of water.			nty of water.	
Most important symptoms and effects Notes to Physician	Difficulty in brea nausea and vom Treat symptoma	niting	re may be headache, dizziness, tiredness,	
	5. Fire-fighting measures			

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may
	be used to cool closed containers.

Unsuitable Extinguishing Media	No information available
Flash Point	42 °C / 107.6 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides.

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.

NFPAHealth	Flammability	Instability	Physical hazards N/A		
I	2	0	N/A		
	6. Accidental re	lease measures			
Personal Precautions		quipment as required. Ensure a precautionary measures against	dequate ventilation. Remove all		
Environmental Precautions	Should not be released int Information.	to the environment. See Section	12 for additional Ecological		
Methods for Containment and Cle Up		ent material. Keep in suitable, c ition. Use spark-proof tools and			
	7. Handling	and storage			
Handling					
Storage.Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away heat, sparks and flame. Flammables area. Incompatible Materials. Oxidizing ager					
8. E	Exposure controls	/ personal protecti	on		
Exposure Guidelines		tain any hazardous materials w gion specific regulatory bodies.			
Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showe 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	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Liquid
Appearance	Light yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	147 - 147 °C / 296.6 - 296.6 °F @ 755 mmHg
Flash Point	42 °C / 107.6 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	3.59
Specific Gravity	1.110
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C4 H8 O S
Molecular Weight	104.17

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.	
Incompatible Materials	Oxidizing agent	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product		
Component Information			
Component	I D50 Oral	LD50 Dermal	I C50 Inhalation

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,4-Oxathiane	LD50 = 2830 mg/kg (Rat)	Not listed	Not listed

Toxicologically Syn	ergistic	No information av	No information available			
Products	-					
Delayed and immed	liate effects	as well as chronic eff	ects from short ar	d long-term expo	osure_	
Irritation		No information av	ailable			
0						
Sensitization		No information av	allable			
Carcinogenicity		The table below in	ndicates whether e	ach agency has lis	sted any ingredient a	as a carcinogen.
Component	CAS N	o IARC	NTP	ACGIH	OSHA	Mexico
1,4-Oxathiane	15980-15		Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	ailable			
Reproductive Effect	ts	No information av	ailable.			
Developmental Effe	cts	No information av	ailable.			
Teratogenicity		No information av	ailable.			
STOT - single exposision STOT - repeated ex		None known None known				
Aspiration hazard		No information av	ailable			
Symptoms / effects delayed	s,both acute	cute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disrupto	Endocrine Disruptor Information No information available					
Other Adverse Effe	cts	The toxicological	properties have no	been fully investi	gated.	
		12. Ecol	logical infor	mation		
Ecotoxicity Do not empty into dra	ains.	121 2001				
Persistence and De	Persistence and Degradability No information available					
Bioaccumulation/ A	ccumulatio	n No information av	ailable.			
Mobility		No information av	ailable.			
		13. Dispo	osal conside	erations		
Waste Disposal Me	thods	Chemical waste g hazardous waste	13. Disposal considerations 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.			
		14. Trai	nsport infor	mation		
DOT UN-No Proper Shipping Hazard Class Packing Group TDG	g Name	UN1993 Flammable liquid, n.o.s. 3 III				
UN-No Proper Shipping Hazard Class Packing Group	g Name	UN1993 Flammable liquid, 3 III	Flammable liquid, n.o.s. 3			

IATA_	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.*
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1,4-Oxathiane	15980-15-1	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1,4-Oxathiane	15980-15-1	-	Х	240-117-6	-	-		-	-	-

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level

pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,4-Oxathiane	Х	-	Х	-	-

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Co	omponent	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · J · · · · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1,4-	-Oxathiane	15980-15-1	-	-	-

Not applicable

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1,4-Oxathiane	15980-15-1	Not applicable	Not applicable	Not applicable	Not applicable

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

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
1,4-Oxathiane	15980-15-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	

Creation Date
Revision Date
Print Date
Revision Summary

12-Nov-2014 27-Mar-2024 27-Mar-2024 New emergency telephone response service provider.

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