

## SAFETY DATA SHEET

**Creation Date** 10-February-2015

**Revision Date** 28-February-2025

**Revision Number** 7

### 1. Identification

**Product Name** Tungstosilicic acid hydrate

**Cat No. :** 39651

**CAS-No** 12027-43-9  
**Synonyms** None

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

##### Company

##### **Importer/Distributor**

Fisher Scientific  
112 Colonnade Road,  
Ottawa, ON K2E 7L6,  
Canada  
Tel: 1-800-234-7437

##### **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

##### **WHMIS 2015 Classification**

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

<b>Skin Corrosion/Irritation</b>	Category 1 C
<b>Serious Eye Damage/Eye Irritation</b>	Category 1
<b>Specific target organ toxicity (single exposure)</b>	Category 3
Target Organs - Respiratory system.	

#### Label Elements

##### **Signal Word**

Danger

##### **Hazard Statements**

Causes severe skin burns and eye damage

May cause respiratory irritation



## Precautionary Statements

## Prevention

Do not breathe dust/fumes/gas/mist/vapours/spray

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

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

## Response

Wash contaminated clothing before reuse

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

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

Immediately call a POISON CENTER/doctor

## 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

## Other Hazards

Harmful to aquatic life with long lasting effects

### 3. Composition/Information on Ingredients

<b>Component</b>	<b>CAS-No</b>	<b>Weight %</b>
Tungstate(4-), [.mu.12-(orthosilicato(4-)-O:O:O:O:O:O:O:O:O:O: O )]tetracosa-.mu.-oxododecaoxododeca-, tetrahydrogen, hydrate	12027-43-9	100
Tungstate(4-), [.mu.12-[orthosilicato(4-)-O:O:O:O:O:O:O:O:O:O: O]]tetracosa-.mu.-oxododecaoxododeca-, tetrahydrogen	12027-38-2	0

#### 4. First-aid measures

## General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## 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. Get medical attention immediately if symptoms occur.

## Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

## Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

<b>Most important symptoms/effects</b>	None reasonably foreseeable. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
<b>Notes to Physician</b>	Treat symptomatically

## 5. Fire-fighting measures

**Suitable Extinguishing Media** CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** Not applicable  
**Method -** No information available

**Autoignition Temperature** No information available

**Explosion Limits**

**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**

The product causes burns of eyes, skin and mucous membranes.

**Hazardous Combustion Products**

Silicon dioxide. Tungsten 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.

**NFPA**

**Health**  
0

**Flammability**  
0

**Instability**  
0

**Physical hazards**  
N/A

## 6. Accidental release measures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean Up** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 7. Handling and storage

**Handling** Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

**Storage.** Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong bases.

## 8. Exposure controls / personal protection

**Exposure Guidelines**

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH
Tungstate(4-), [.mu.12-(orthosilicato(4-) -O:O:O:O:O:O:O:O:O:]	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	(Vacated) TWA: 5 mg/m <sup>3</sup> (Vacated) STEL:	REL = 5 mg/m <sup>3</sup> (TWA) STEL: 10 mg/m <sup>3</sup>



## 10. Stability and reactivity

## 11. Toxicological information

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

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## 12. Ecological information

**Ecotoxicity**  
May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

### 13. Disposal considerations

<b>Waste Disposal Methods</b>	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.
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## 14. Transport information

<b>UN-No</b>	UN3260
<b>Proper Shipping Name</b>	Corrosive solid, acidic, inorganic, n.o.s.
<b>Technical Name</b>	Tungstate(4-), [mu.12-(orthosilicato(4-)-O'O'O'O'O'O'O'O''O'''O'''O'''O'''O''')tetracosa-mu.-oxododecaoxododeca-, tetrahydrogen, hydrate
<b>Hazard Class</b>	8
<b>Packing Group</b>	III

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## UN-No UN3260

## 15. Regulatory information

## International Inventories

<b>Component</b>	<b>CAS-No</b>	<b>DSL</b>	<b>NDSL</b>	<b>TSCA</b>	<b>TSCA Inventory notification - Active-Inactive</b>	<b>EINECS</b>	<b>ELINCS</b>	<b>NLP</b>
Tungstate(4-), [.mu.12-(orthosilicato(4-)-O:O:O:O: O:O:O:O:O:O:O:O)]tetracosa-.mu.-oxododecaoxodo deca-, tetrahydrogen, hydrate	12027-43-9	-	-	-	-	-	-	-
Tungstate(4-), [.mu.12-[orthosilicato(4-)-O:O:O:O:O: O:O:O:O:O:O:O]]tetracosa-.mu.- oxododecaoxododeca-, tetrahvdrogen	12027-38-2	X	-	X	ACTIVE	234-719-8	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Tungstate(4-), [.mu.12-(orthosilicato(4-)-O:O:O:O: O:O:O:O:O:O:O:O )]tetracosa-.mu.-oxododecaoxodo deca-, tetrahydrogen, hydrate	12027-43-9	-	-	-	-	X	X	-	-
Tungstate(4-), [.mu.12[orthosilicato(4-)-O:O:O:O:O: O:O:O:O:O:O:O:O]]tetracosa-.mu.- oxododecaoxododeca-, tetrahydrogen	12027-38-2	X	KE-35415	X	X	X	X	X	X

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Not applicable

Component	CAS-No	OECD HPV	Persistent Organic	Ozone Depletion	Restriction of
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<b>Component</b>	<b>CAS-No</b>	<b>Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification</b>	<b>Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements</b>	<b>Rotterdam Convention (PIC)</b>	<b>Basel Convention (Hazardous Waste)</b>
Tungstate(4-), [.mu.12-(orthosilicato(4-)-O:O: O:O:O:O:O:O:O:O:O:O) ]tetracosa-.mu.-oxododecaox ododeca-, tetrahydrogen, hydrate	12027-43-9	Not applicable	Not applicable	Not applicable	Not applicable
Tungstate(4-), [.mu.12-[orthosilicato(4-)-O:O: O:O:O:O:O:O:O:O:O:O]]tetrac osa-.mu.-oxododecaoxododec a-, tetrahvdrogen	12027-38-2	Not applicable	Not applicable	Not applicable	Not applicable

## Prepared By

### Creation Date

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Revision Date

28-February-2025

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### Revision Summary

This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals. SDS sections updated. 2.

## 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