# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 12/28/2008 Print Date 02/02/2009

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Tungstosilicic acid hydrate

Product Number

: T2786 : Sigma

Brand

Company

Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

LISA

+1 800-325-5832 Telephone +1 800-325-5052

Fax Emergency Phone # : (314) 776-6555

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: Silicotungstic acid

Formula

: H4O40SiW12 · xH2O

Molecular Weight

: 2,878.17 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
12-Wolframosilicio	acid		
12027-38-2	234-719-8	-	-

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

**OSHA Hazards** 

Irritant

**HMIS Classification** 

Health Hazard: 0 Flammability: Physical hazards:

NFPA Rating

00001484

Health Hazard: Λ Reactivity Hazard:

#### Potential Health Effects

May be harmful if inhaled. Causes respiratory tract irritation. Inhalation May be harmful if absorbed through skin. Causes skin irritation. Skin

Causes eye irritation. Eves

May be harmful if swallowed. Ingestion

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#### 4. FIRST AID MEASURES

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5, FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point

not applicable

Ignition temperature no data available

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

## **Environmental precautions**

Do not let product enter drains.

# Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

## Storage

Keep container tightly closed in a dry and well-ventilated place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
12- Wolframosilicic acid	12027-38-2	TWA	5 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000

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	_			
				Z-1-A
	STEL	10 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A
	TWA	5 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
	STEL	10 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)

#### Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

# Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hygiene measures

Hygiene in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form

solid

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Safety data

pH no data available
Melting point no data available
Boiling point no data available
Flash point not applicable
Ignition temperature no data available
Lower explosion limit
Upper explosion limit
Water solubility no data available
no data available

#### 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong acids, Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Tungsten oxide, silicon oxides

# 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

no data available

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

## Chronic exposure

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by OSHA.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Potential Health Effects**

 Inhalation
 May be harmful if inhaled. Causes respiratory tract irritation.

 Skin
 May be harmful if absorbed through skin. Causes skin irritation.

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Eyes Ingestion Causes eye irritation.

May be harmful if swallowed.

# 12. ECOLOGICAL INFORMATION

# Elimination information (persistence and degradability)

no data available

### **Ecotoxicity effects**

no data available

#### Further information on ecology

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### Produc

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

# 15. REGULATORY INFORMATION

### **OSHA Hazards**

Irritant

00001485

#### DSL Status

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard

# Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

12-Wolframosilicic acid

CAS-No. 12027-38-2 Revision Date

12-Wollfamosilicic ac

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#### **New Jersey Right To Know Components**

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12-Wolframosilicic acid

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# 16. OTHER INFORMATION

#### Further information

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