

# **SAFETY DATA SHEET**

Revision Date 18-Feb-2020 Revision Number 2

# 1. Identification

Product Name Yttrium(III) sulfide

Cat No.: 39565

**CAS-No** 12039-19-9

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

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

## **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

### Classification

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

Substances/mixtures which, in contact with water, emit Category 2

flammable gases

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2

Specific target organ toxicity (single exposure)

Category 2

Category 2

Target Organs - Respiratory system.

# Label Elements

### Signal Word

Danger

### **Hazard Statements**

In contact with water releases flammable gas Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

### Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Storage**

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

Store locked up

Store in a dry place. Store in a closed container

## Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Contact with water liberates toxic gas

3	. Composition/Informatio	on on Ingredients

Component		CAS-No	Weight %		
	Yttrium sulfide (Y2S3)	12039-19-9	<=100		

# 4. 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.

**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. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry sand. Carbon dioxide (CO<sub>2</sub>). Powder. Do not use water or foam. CO<sub>2</sub>, dry chemical,

dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available 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**

Contact with water liberates toxic gas.

#### **Hazardous Combustion Products**

Sulfur oxides. Yttrium oxide.

## **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	Flammability	Instability	Physical hazards
2	2	2	W

## 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. See Section 12 for additional Ecological

Information. Do not allow material to contaminate ground water system. Do not flush into

surface water or sanitary sewer system.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed **Up** containers for disposal. Do not expose spill to water.

## 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

Do not allow contact with water.

**Storage** Keep away from water or moist air.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Yttrium sulfide (Y2S3)	TWA: 1 mg/m <sup>3</sup>		IDLH: 500 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
, , ,	_		TWA: 1 mg/m <sup>3</sup>	_

## Legend

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures None under normal use conditions. 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**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

Physical State Solid

Appearance No information available

Odor Rotten-egg like

Odor Threshold No information available

DH No information available

Melting Point/Range No data available

Boiling Point/Range No information available Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableupor PressureNo information available

Vapor PressureNo informationVapor DensityNot applicable

Specific Gravity

No information available

Solubility No information available

Partition coefficient; n-octanol/water

Autoignition Temperature

No data available
No information available

**Decomposition Temperature**No information available
No information available

Viscosity Not applicable

Molecular Formula Y2 S3 Molecular Weight 273.93

# 10. Stability and reactivity

Reactive Hazard Yes

**Stability** Stable under normal conditions.

**Conditions to Avoid** Exposure to moist air or water. Exposure to moisture.

Revision Date 18-Feb-2020 Yttrium(III) sulfide

**Incompatible Materials** Oxidizing agent

Hazardous Decomposition Products Sulfur oxides, Yttrium oxide

**Hazardous Polymerization** Hazardous polymerization does not occur.

**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

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Yttrium sulfide (Y2S3)	12039-19-9	Not listed				

No information available **Mutagenic Effects** 

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

No information available **Endocrine Disruptor Information** 

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

# 12. Ecological information

**Ecotoxicity** 

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability May persist

**Bioaccumulation/ Accumulation** No information available. **Mobility** No information available.

# 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

**UN-No** UN3134

**Proper Shipping Name** Water-reactive solid, toxic, n.o.s.

(Yttrium(III) sulfide) **Technical Name** 

**Hazard Class** 4.3 **Subsidiary Hazard Class** 6.1 **Packing Group** Ш

TDG

UN3134 **UN-No** 

Water-reactive solid, toxic, n.o.s. **Proper Shipping Name** 

**Hazard Class** 4.3 **Subsidiary Hazard Class** 6.1 **Packing Group** Ш

IATA

UN3134 **UN-No** 

**Proper Shipping Name** Water-reactive solid, toxic, n.o.s.

**Hazard Class** 4.3 **Subsidiary Hazard Class** 6.1 **Packing Group** 

IMDG/IMO

UN-No UN3134

Water-reactive solid, toxic, n.o.s. **Proper Shipping Name** 

**Hazard Class** 4.3 **Subsidiary Hazard Class** 6.1 **Packing Group** Ш

# 15. Regulatory information

## **United States of America Inventory**

	Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
1	Yttrium sulfide (Y2S3)	12039-19-9	Χ	ACTIVE	-

# Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

## **International Inventories**

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Yttrium sulfide (Y2S3)	12039-19-9	-	Х	234-887-2	-	-	-	-	KE-35495

## U.S. Federal Regulations

**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

Regulations

Not applicable

**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 Health, Safety and Environmental Department

Email: tech@alfa.com

www.alfa.com

Revision Date 18-Feb-2020 Print Date 18-Feb-2020

**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 12039-19-9.

### **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**