

# SAFETY DATA SHEET

Creation Date 16-Feb-2015 Revision Date 24-Dec-2021 Revision Number 4

1. Identification

Product Name Azidotrimethylsilane

Cat No.: AC167930000; AC167930100; AC167930500; AC167932500

**CAS No** 4648-54-8

Synonyms Trimethylsilyl azide

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 Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
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)

Flammable liquids

Acute oral toxicity

Category 3

Acute dermal toxicity

Category 3

Acute Inhalation Toxicity - Vapors

Category 3

### Label Elements

## Signal Word

Danger

### **Hazard Statements**

Highly flammable liquid and vapor

Toxic if swallowed, in contact with skin or if inhaled



## **Precautionary Statements**

### Prevention

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

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

Use only outdoors or in a well-ventilated area

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

Keep cool

### 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

#### Skin

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

Wash contaminated clothing before reuse

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

### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

### **Fire**

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

# 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)

Very toxic to aquatic life with long lasting effects

Contact with water liberates toxic gas

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Silane, azidotrimethyl-	4648-54-8	>95

### 4. First-aid measures

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

Immediate medical attention is required.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is required.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

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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. If

not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

**Notes to Physician** 

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

# Fire-fighting measures

**Suitable Extinguishing Media** CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool

closed containers.

**Unsuitable Extinguishing Media** Water

6 °C / 42.8 °F **Flash Point** 

Method -No information available

**Autoignition Temperature** 300 °C / 572 °F

**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**

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. Water reactive. Contact with water liberates toxic gas. 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. Do not allow run-off from fire-fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Silicon dioxide.

### **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.

NF	PA
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Health	Flammability	Instability	Physical hazards
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# 6. Accidental release measures

Use personal protective equipment as required. Evacuate personnel to safe areas. Remove **Personal Precautions** 

all sources of ignition. Take precautionary measures against static discharges. Do not get in

eves, on skin, or on clothing.

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

contaminate ground water system. Prevent product from entering drains. Local authorities

should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Wear self-contained breathing apparatus and protective suit. Remove all sources of ignition. Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use

spark-proof tools and explosion-proof equipment.

# 7. Handling and storage

**Handling**Use only under a chemical fume hood. Wear personal protective equipment/face protection.

Use spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must

be grounded.

**Storage.** Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and flame.

Refrigerator/flammables. Keep under nitrogen. Keep container tightly closed in a dry and

well-ventilated place. Incompatible Materials. Acids. Strong oxidizing agents.

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. Use explosion-proof electrical/ventilating/lighting

equipment. Ensure that eyewash stations and safety showers are close to the workstation

location. Ensure adequate ventilation, especially in confined areas.

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 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 StateLiquidAppearanceClearOdorOdorless

Odor Threshold

pH

No information available

No information available

Melting Point/Range No data available

**Boiling Point/Range** 95 - 96 °C / 203 - 204.8 °F @ 175 mmHg

Flash Point 6 °C / 42.8 °F
Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density 3.97 Specific Gravity 0.876

SolubilityNo information availablePartition coefficient; n-octanol/waterNo data availableAutoignition Temperature300 °C / 572 °FDecomposition TemperatureNo information availableViscosityNo information available

Molecular Formula C3 H9 N3 Si

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**Molecular Weight** 115.21

# 10. Stability and reactivity

**Reactive Hazard** Yes

Decomposes in contact with water. Moisture sensitive. Stability

Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. **Conditions to Avoid** 

Exposure to moist air or water.

**Incompatible Materials** Acids, Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>), Silicon dioxide

**Hazardous Polymerization** No information available.

Contact with water liberates toxic gas. **Hazardous Reactions** 

# 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
Silane, azidotrimethyl-	4648-54-8	Not listed				

No information available **Mutagenic Effects** 

No information available. **Reproductive Effects** 

No information available. **Developmental Effects** 

**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.

# 12. Ecological information

**Ecotoxicity** 

Very 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.

**Bioaccumulation/ Accumulation** No information available.

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

# 13. 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.

# 14. Transport information

DOT

**UN-No** UN1992

Proper Shipping Name Flammable liquid, toxic, n.o.s.

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II

TDG

**UN-No** UN1992

**Proper Shipping Name** Flammable liquid, toxic, n.o.s.

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group ||

<u>IATA</u>

**UN-No** UN1992

Proper Shipping Name FLAMMABLE LIQUID, TOXIC, N.O.S.\*

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II

IMDG/IMO

**UN-No** UN1992

Proper Shipping Name Flammable liquid, toxic, n.o.s.

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II

# 15. Regulatory information

### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Silane, azidotrimethyl-	4648-54-8	Х	ACTIVE	-

### Legend:

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

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export 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 N	SL EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
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	Silane, azidotrimethyl-	4648-54-8	-	Х	225-078-5	Χ	-	Х	Χ	Χ	KE-01979

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

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

Authorisation/Restrictions according to EU REACH

## 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)
Silane, azidotrimethyl-	4648-54-8	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention

Component	CAS No	Seveso III Directive (2012/18/EC) - Seveso III Directive (2012/18/EC)		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		<b>Qualifying Quantities</b>	<b>Qualifying Quantities</b>	• •	, ,
		for Major Accident   for Safety Report			
		Notification	Requirements		
Silane, azidotrimethyl-	4648-54-8	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Regulatory Affairs

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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**