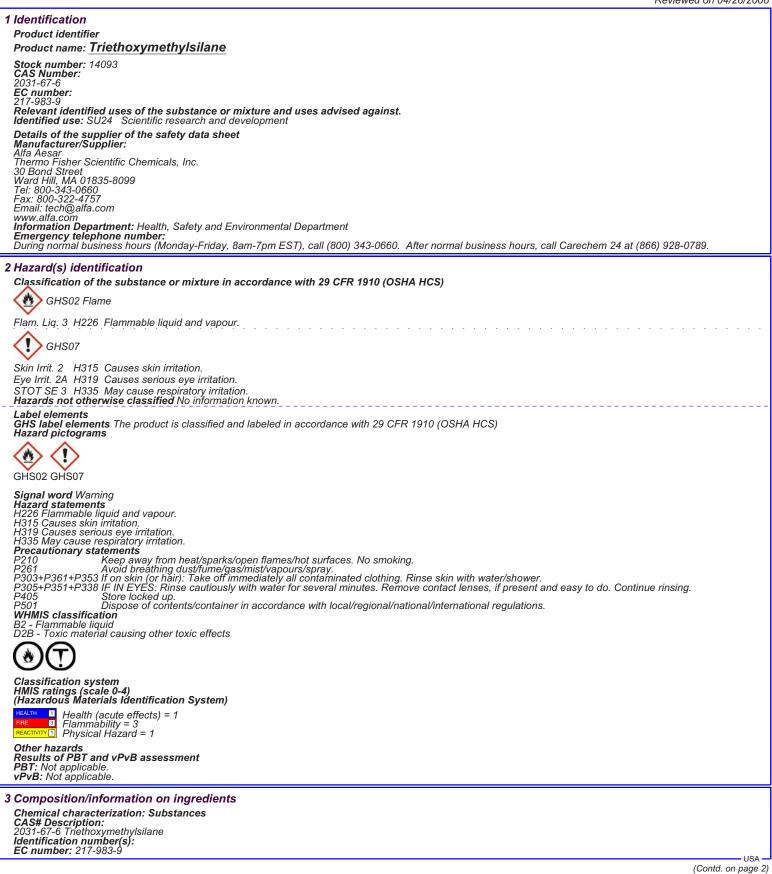


Safety Data Sheet per OSHA HazCom 2012



Product name: Triethoxymethylsilane

	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. Information for doctor	
Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling expo	asad containara
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	sea comamers.
Carbon monoxide and carbon dioxide Silicon oxide	
Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away the neuropa	
Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up:	
Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Ensure adequate ventiation. Prevention of secondary hazards: Keep away from ignition sources.	
Reference to other sections See Section 7 for information on safe handling	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of aerosols. Information about protection against explosions and fires: Protect against electrostatic charges. Funes can combine with air to form an explosive mixture. Keep ignition sources away.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions:	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls Personal protective equipment	
Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.	
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Protection of hands: Impervious gloves Choole restative gloves prior to each use for their proper condition	
Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work clothing.	
Body procedulin i rotouro work ofouning.	USA

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9 Physical and chemical properties		
Information on basic physical and che	mical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Cólorless	
Odor: Odor threshold:	Not determined	
	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	141-143 °C (286-289 °F)	
Sublimation temperature / start:	Not determined	
Flash point:	23 °C (73 °F)	
Flammability (solid, gaseous)	Not determined. Not determined	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not determined	
Relative density	0.895 g/cm³ (7.469 lbs/gal) Not determined.	
Vapor density	Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water:	Not determined	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for classification: No data		
Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation.		
Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects known.		
Specific target organ system toxicity - repeated exposure: No effects known.		
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Behavioral - somnolence (general depressed activity). Behavioral - tremor.		
Behavioral - somnolence (general depressed activity).		
Behavioral - tremor.		
Benavioral - alaxia.		
Lungs, Thorax, or Respiration - dyspnea. Lungs, Thorax, or Respiration - other cha	inges.	
Gastrointestinal - changes in structure or function of salivary glands. Gastrointestinal - other changes. Subacute to chronic toxicity:		
Subacute to chronic toxicity:	u of low toxicity. These exhibiting mainture constituity may be strength invitation or corrective on contact	
Additional toxicological information:	r of low toxicity. Those exhibiting moisture sensitivity may be strongly irritating or corrosive on contact. Fo the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information		
Toxicity	armation available	
Aquatic toxicity. No future relevant information available. Persistence and degradability. No further relevant information available		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. No bit is in a solution of the solu		
Mobility in soil No further relevant information available. Additional ecological information:		
General notes:		
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.		
Avoid transfer into the environment.	aannines to reach ground water, water course Or Sewage system.	
Results of PBT and vPvB assessment		
PBT: Not applicable.		

VPVB: Not applicable. Other adverse effects No further relevant information available.

(Contd. of page 3)

13 Disposal considerations

13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN1993		
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Triethoxymethylsilane) FLAMMABLE LIQUID, N.O.S. (Triethoxymethylsilane)		
Transport hazard class(es) DOT	T LAWMADLE ENGOL, N.O.S. (methoxymethysnane)		
Class Label Class Label IMDG, IATA	3 Flammable liquids. 3 3 (F1) Flammable liquids 3		
Class Label	3 Flammable liquids. 3		
Packing group DOT, IMDG	III		
Environmental hazards:	Not applicable.		
Special precautions for user	Warning: Flammable liquids		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information:			
DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (Triethoxymethylsilane), 3, III		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms CHS02 CHS07			
GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H315 Causes skin intation. H319 Causes skin intation. H319 Causes skin intation. H326 Flammable liquid and vapour. H316 Causes skin intation. H317 Causes skin intation. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/tume/gas/mist/vapours/spray. P303+P361+P353 IF on skin (or hair): Take of immediately all contaminated clothing. Rinse skin with water/shower. P303+P361+P353 IF iN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 Developmental toxicity female Substance is not listed. Prop 65 Developmental toxicity female Substance is not listed. Prop 65 Developmental toxicit			
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department			

Product name: Triethoxymethylsilane

 Date of preparation / last revision 11/23/2015 /

 Abbreviations and acronyms:

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 IMDG: International Mairtime Code for Dangerous Goods

 DOT: US Department of Transportation

 IATA: International Air Transport Association

 EINECS: European Inventory of Existing Commercial Chemical Substances

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMIS: Hazardous Materials Information System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 L50: Lethal concentration.

 UES0: Lethal concentration.

 VP:B: very Persistent and very Bioaccumulative

 ACGIH: American Conference of Governmental Industrial Hygienists (USA)

 OSHA: Occupational Safety and Health Administration (USA)

 NTP: National Toxicology Program (USA)

 IAR: Environmental Protection Agency (USA)

(Contd. of page 4)

USA