

SAFETY DATA SHEET

Creation Date 07-Mar-2012

Revision Date 24-Dec-2021

Revision Number 6

1. Identification

Product Name

Octadecyltrichlorosilane

Cat No. :

Synonyms

CAS No

AC147400000; AC147400250; AC147401000; AC147405000

112-04-9 Trichlorooctadecylsilane

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

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)

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

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/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting 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) Reacts violently with water

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Octadecyltrichlorosilane		112-04-9	>94	
	4.	First-aid measures		
General Advice	Show this sa required.	fety data sheet to the doctor in attend	dance. Immediate medical attention is	
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.		
Skin Contact			east 15 minutes. Remove and wash nside, before re-use. Call a physician	
Inhalation	mouth-to-mo with the aid c	uth method if victim ingested or inhal	e from exposure, lie down. Do not use led the substance; give artificial respiration e-way valve or other proper respiratory	
Ingestion		ice vomiting. Clean mouth with water person. Call a physician immediately	 Never give anything by mouth to an 	

Most important symptoms and effects Notes to Physician	Causes burns by all exposure routes. 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 Treat symptomatically		
	5. Fire-fighting measures		
Suitable Extinguishing Media	nguishing Media CO ₂ , dry chemical, dry sand, alcohol-resistant foam.		
Insuitable Extinguishing Media No information available			
Flash Point	189 °C / 372.2 °F		
Method -	Literature reference		

Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	.40%
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Reacts violently with water.

Hazardous Combustion Products

Silicon dioxide. Hydrogen chloride gas.

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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 0	Instability 0	Physical hazards W
	6. Accidental re	lease measures	
Personal Precautions		on. Use personal protective equ Geep people away from and upw	
Environmental Precautions	Should not be released in		
Methods for Containment and Cle Up	Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Do not expose spill to water.		
	7. Handling	and storage	
Handling	protection. Use only unde	n, or on clothing. Wear personal r a chemical fume hood. Do not seek immediate medical assista	breathe mist/vapors/spray. Do not
Storage.	from heat, sparks and flan Keep away from water or	moist air. Keep containers tightlompatible Materials. Strong oxid	sives area. Keep under nitrogen. y closed in a dry, cool and

8. E	xposure 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	Ensure adequate ventilation, especially in confined areas. 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	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

Liquid
Light yellow
pungent
No information available
No information available
No data available
223 °C / 433.4 °F @ 10 mmHg
189 °C / 372.2 °F
Literature reference
No information available
Not applicable
No data available
.40%
< 5 mmHg @ 20 °C
> 1 (Air = 1.0)
0.980
No information available
No data available
No information available
No information available
No information available
C18 H37 Cl3 Si
387.94

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Stable under normal conditions. Reacts violently with water.
Conditions to Avoid	Incompatible products. Exposure to moist air or water. Exposure to moisture.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Alcohols, Water

Hazardous Decomposition Products Silicon dioxide, Hydrogen chloride gas

Hazardous Polymerization	Hazardous polymerization does not occur.
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Hazardous Reactions None under normal processing. Reacts violently with water.

11. Toxicological information

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Acute Toxicity
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Products

Product Information

No acute toxicity information is available for this product

Component Information	-
Toxicologically Synergistic	No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation N	No information available
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Sensitization No information available

Carcinogenicity

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

Octadecyltrichlorosilan	112-04-9						
	112-04-3	Not listed	Not listed	Not listed	Not listed	Not listed	
e Mutagenic Effects		No information available					
Reproductive Effects	S	No information available.					
Developmental Effect	cts	No information available.					
Teratogenicity		No information available.					
STOT - single exposure STOT - repeated exposure		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects,both acute and delayed		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					
Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.					

Ecotoxicity

Do not empty into drains. Reacts with water so no ecotoxicity data for the substance is available.

Persistence and Degradability	Persistence is unlikely based on information available.		
Bioaccumulation/ Accumulation	umulation No information available.		
Mobility	Is not likely mobile in the environment.		
	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		

	14. Transport information
DOT	
UN-No	UN1800
Hazard Class	8
Packing Group	ll
TDG	
UN-No	UN1800
Hazard Class	8
Packing Group	II
IATA	
UN-No	UN1800
Proper Shipping Name	OCTADECYLTRICHLOROSILANE
Hazard Class	8
Packing Group	ll
IMDG/IMO	
UN-No	UN1800
Proper Shipping Name	OCTADECYLTRICHLOROSILANE
Hazard Class	8
Packing Group	
	15. Regulatory information

national hazardous waste regulations to ensure complete and accurate classification.

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Octadecyltrichlorosilane	112-04-9	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	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Octadecyltrichlorosilane	112-04-9	-	Х	203-930-7	Х	Х	Х	Х	Х	-

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Octadecyltrichlorosilane	Х	Х	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):			
DOT Marine Pollutant			
DOT Severe Marine Pollutant			

U.S. Department of Homeland Security

This product contains the following DHS chemicals: **Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard			
Octadecyltrichlorosilane	APA			

Other International Regulations

Mexico - Grade

No information available

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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)
Octadecyltrichlorosilane	112-04-9	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Octadecyltrichlorosilane	112-04-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	07-Mar-2012
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
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