

SAFETY DATA SHEET

Revision Date 25-Dec-2021

Revision Number 5

1. Identification

Product Name

2,4,6-Trivinylcyclotriboroxane-pyridine complex

Cat No. :

CAS No

AC372760000; AC372760010; AC372760050; AC372762500 95010-17-6

Synonyms Recommended Use

Uses advised against

O`Shea`s reagent 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

Category 2 Category 4 Category 4 Category 4 Category 2 Category 2 Category 3

Classification

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

Flammable solids
Acute oral toxicity
Acute dermal toxicity
Acute Inhalation Toxicity - Dusts and Mists
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Label Elements

Signal Word Warning

Hazard Statements

Flammable solid Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful 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 Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment 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 Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eves 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 Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
2,4,6-Trivinylcyclotriboroxane-pyridine complex	95010-17-6	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	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
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Unsuitable Extinguishing Media	No information available
Flash Point Method -	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 Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical

Combustible material.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of boron.

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 2	Flammability 2	Flammability Instability 2 0			
	6. Accidental rel	lease measures			
Personal Precautions	Ensure adequate ventilatio formation.	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.			
Environmental Precautions	Should not be released into	Should not be released into the environment.			
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.					
	7. Handling a	and storage			
Handling			ure adequate ventilation. Do not halation. Avoid dust formation.		

Storage. Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and f Store in freezer. Incompatible Materials. Strong oxidizing agents. Strong bases.					
8. E	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	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	9. Physical and chemical properties				
hysical State Solid					
Appearance	No information available				
Odor	No information available				
Odor Threshold	No information available				
рН	Not applicable				
Melting Point/Range	44 - 52 °C / 111.2 - 125.6 °F				
Boiling Point/Range	78 - 80 °C / 172.4 - 176 °F				
Flash Point	No information available				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	No information available				
Vapor Density	Not applicable				
Specific Gravity	No information available				
Solubility	No information available				
Partition coefficient; n-octanol/water	No data available				
Autoignition Temperature	No information available				
Decomposition Temperature	No information available				
Viscosity	Not applicable				
Molecular Formula	C6 H9 B3 O3 . C5 H5 N				
Molecular Weight	240.67				

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Moisture sensitive.
Conditions to Avoid	Incompatible products. Exposure to moist air or water.

neematikle Materials					
	ncompatible Materials Strong oxidizing agents, Strong bases				idea of horses
-	Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Oxides of boron				
Hazardous Polymerization	No information ava				
Hazardous Reactions	None under norma	I processing.			
	11. Toxico	ological info	ormation		
Acute Toxicity					
Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as y	Component Information Toxicologically Synergistic No information available				
Irritation	No information ava	ailable			
Sensitization	No information ava	ilable			
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2,4,6-Trivinylcyclotribo 95010-17-6 roxane-pyridine complex	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects	No information available				
Reproductive Effects	No information available.				
Developmental Effects	No information ava	ilable.			
Teratogenicity	ratogenicity No information available.				
STOT - single exposure STOT - repeated exposure	Respiratory system None known				
Aspiration hazard	No information available				
Symptoms / effects,both acute and No information available delayed					
Endocrine Disruptor Information No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.					
	12. Ecolo	ogical infor	mation		
Ecotoxicity Do not empty into drains.					
Persistence and Degradability	Persistence is unlil	kely based on info	rmation available.		
Bioaccumulation/ Accumulation No information available.					
Mobility Will likely be mobile in the environment due to its volatility.					

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	UN1325
Hazard Class	4.1
Packing Group	III
TDG	
UN-No	UN1325
Hazard Class	4.1
Packing Group	III
IATA	
UN-No	UN1325
Proper Shipping Name	Flammable solid, organic, n.o.s.
Hazard Class	4.1
Packing Group	III
IMDG/IMO	
UN-No	UN1325
Proper Shipping Name	Flammable solid, organic, n.o.s.
Hazard Class	4.1
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2,4,6-Trivinylcyclotriboroxane-pyri dine complex	95010-17-6	-	-	-

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

X = listed, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2,4,6-Trivinylcyclotriboroxane-pyri	95010-17-6	-	-	-	-	-		-	-	-
dine complex										

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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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)
2,4,6-Trivinylcyclotriboroxane- pyridine complex	95010-17-6	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)
2,4,6-Trivinylcyclotriboroxane- pyridine complex	95010-17-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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Revision Date	25-Dec-2021
Print Date	25-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