

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Yttrium(III) chloride hexahydrate

Cat No. :

AC199180000; AC199180500; AC199182500

CAS No Synonyms

Yttrium trichloride hexahydrate.

10025-94-2

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 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements 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

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

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

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 %
Yttrium chloride (YCl3), hexahydrate	10025-94-2	>99
Yttrium chloride (YCl3)	10361-92-9	-

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	None reasonably foreseeable.		

effects Notes to Physician	Treat symptomatically				
	5. Fire-fightin	ng measures			
Suitable Extinguishing Media	Water spray, carbon dioxic	le (CO2), dry chemical, alcohol	-resistant foam.		
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 Sensitivity to Mechanical Impac	No data available t No information available				
Sensitivity to Static Discharge	No information available				
Specific Hazards Arising from the C Non-combustible.	hemical				
Hazardous Combustion Products 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.					
NFPA Health 2	Flammability 0	Instability 1	Physical hazards N/A		
	6. Accidental release measures				
Personal Precautions	Ensure adequate ventilation	n. Use personal protective equ	ipment as required. Avoid dust		
Environmental Precautions					
Methods for Containment and Clear Up	Sweep up and shovel into containers for disposal.	suitable containers for disposa	I. Keep in suitable, closed		
	7. Handling	and storage			
Handling	Wear personal protective e	equipment/face protection. Ens	ure adequate ventilation. Do not halation. Avoid dust formation.		
Storage.	Keep in a dry, cool and we Materials. Strong oxidizing		ner tightly closed. Incompatible		

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Yttrium chloride (YCl3),	TWA: 1 mg/m ³		IDLH: 500 mg/m ³	TWA: 1 mg/m ³
hexahydrate	-		TWA: 1 mg/m ³	_
Yttrium chloride (YCl3)	TWA: 1 mg/m ³		IDLH: 500 mg/m ³	TWA: 1 mg/m ³
· · ·	-		TWA: 1 mg/m ³	-

<u>Legend</u>

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

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

Solid White Odorless

No information available No information available 100 °C / 212 °F No information available No information available

No information available

No information available Soluble in water No data available No information available No information available

Not applicable

Not applicable

Not applicable Cl3 Y . 6 H2 O 303.35

No data available No data available No information available

	7.11195100
Physical State	
Appearance	
Odor	
Odor Threshold	
рН	
Melting Point/Range	
Boiling Point/Range	
Flash Point	
Evaporation Rate	
Flammability (solid,gas)	
Flammability or explosive limits	
Upper	
Lower	
Vapor Pressure	
Vapor Density	
Specific Gravity	
Solubility	
Partition coefficient; n-octanol/w	ater
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	s Hydrogen chloride gas
Hazardous Polymerization	No information available.

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		Irritating to eyes a	nd skin May cause	irritation of respira	tory tract	
Sensitization		No information ava	ailable			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.			as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Yttrium chloride (YCl3), hexahydrate	10025-94-2	Not listed	Not listed	Not listed	Not listed	Not listed
Yttrium chloride (YCI3)	10361-92-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect		No information available.				
Teratogenicity		No information available.				
STOT - single exposision STOT - repeated ex		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	s,both acute and	te and No information available				
Endocrine Disrupto	r Information	ation No information available				

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

12. Ecological information			
Ecotoxicity Do not empty into drains.			
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		

14. Transport information

DOT	Not regulated
TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Yttrium chloride (YCl3), hexahydrate	10025-94-2	-	-	-
Yttrium chloride (YCl3)	10361-92-9	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
Yttrium chloride (YCl3),	10025-94-2	-	-	233-801-0	-	-		-	-	-
hexahydrate										
Yttrium chloride (YCl3)	10361-92-9	Х	-	233-801-0	-	Х	Х	-	Х	KE-35471

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.
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
U.S. State Right-to-Know	

Security

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)
Yttrium chloride (YCl3), hexahydrate	10025-94-2	Not applicable	Not applicable	Not applicable	Not applicable
Yttrium chloride (YCl3)	10361-92-9	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)
Yttrium chloride (YCl3), hexahydrate	10025-94-2	Not applicable	Not applicable	Not applicable	Not applicable
Yttrium chloride (YCl3)	10361-92-9	Not applicable	Not applicable	Not applicable	Not applicable

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Disclaimer

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End of SDS