

# SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

1. Identification

## **Product Name**

# Scandium(III) chloride hexahydrate

# Cat No. : CL1020

CAS No Synonyms

Recommended Use Uses advised against 20662-14-0

No information available

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

## Details of the supplier of the safety data sheet

# Company

Stanford Advanced Materials, 23661 Birtcher Dr. Lake Forest, CA 92630 USA Tel: +1 (949) 407-8904

Emergency Telephone Number

+1 (949) 407-8904

2. Hazard(s) identification

## **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Scandium chloride (ScCl3), hexahydrate		20662-14-0	<=100	
	4.	First-aid measures		
Eye Contact	Rinse immed medical atter	iately with plenty of water, also under th tion.	ne eyelids, for at least 15 minutes. Get	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Remove to fresh air. Get medical attention immediately 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 reason	ably foreseeable.		
effects Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower	No data available No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

Hydrogen chloride. Scandium oxide.

#### **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.

<u>NFPA</u> Health 0	Flammability 0	Instability 1	Physical hazards -
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
Environmental Precautions			n 12 for additional Ecological water system. Do not flush into

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Up			
	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.		
Storage.	Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Oxidizing agent.		
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	None under normal use conditions.		
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.		
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.		
Recommended Filter type:	Particle filter.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Phys	ical and	l chemical	properties
, , , , , <u>,</u>	iour une		proportios

,	
Physical State	Solid Crystalline
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
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	ScCl3.6H2 O
Molecular Weight	259.41 (151.32anhy)
5	

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Exposure to moist air or water.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Product	<b>s</b> Hydrogen chloride, Scandium oxide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

## Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects a	No information available s well as chronic effects from short and long-term exposure_
Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Scandium chloride	20662-14-0	Not listed	Not listed	Not listed	Not listed	Not listed
	CI3), hexahydrate					
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos	single exposure None known					
STOT - repeated exp	osure	None known				
Aspiration hazard	No information available					
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor	ndocrine Disruptor Information No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.						
12. Ecological information						

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability based on information available. May persist

**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 class           hazardous waste.         Chemical waste generators must also consult local, regional, a           national hazardous waste regulations to ensure complete and accurate classificat				
14. Transport information				
DOT	Not regulated			
	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
Scandium chloride (ScCl3), hexahydrate	20662-14-0	-	-	-

#### Legend:

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

'-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Scandium chloride (ScCl3),	20662-14-0	-	-	-	-	-		-	-	-
hexahydrate										

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

#### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and	Not applicable

Health Administration

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> 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 Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	0	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Scandium chloride (ScCl3), hexahydrate	20662-14-0	-	-	-

### 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)
Scandium chloride (ScCl3), hexahydrate	20662-14-0	Not applicable	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

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)
Scandium chloride (ScCl3), hexahydrate	20662-14-0	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Stanford Advanced Materials Email: sales@samaterials.com www.samaterials.com
Revision Date Print Date Revision Summary	30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.

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