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	Version 1
1 Identification	
Product identifier Product name: Scandium(III) chloride hexahydrate	
Stock number: 11218 CAS Number:	
20662-14-0 EC number: 233-700.1	
233-799-1 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Form 900-222 4757	
Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 92	28-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE Flammability = 0 REACTVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
VPVB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description: 20662 14.0 Security://///	
20662-14-0 Scandium(III) chloride hexahydrate Concentration: ≥100% Identification number(s):	
EC number: 233-799-1	
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 swallowing Seek medical treatment. 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 Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released: Hydrogen chloride (HCI)	
Scandium 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	
	(Contd. on page 2) USA –



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Product name: Scandium(III) chloride hexahydrate

Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information. Protective Action Criteria for Chemica PAC-1: Substance is not listed. PAC-3: Substance is not listed.	andling al protection equipment.	(Contd. of page 1)	
Conditions for safe storage, including Storage	ns and receptacles: No special requirements. mon storage facility: nditions: ed containers.		
Specific end use(s) No future relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical future 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective end hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Use suitable respirator when high concentrations are present. Use suitable respirator when high concentrations are present. Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purfying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves priot 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. Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU)			
9 Physical and chemical properties			
Information on basic physical and ch General Information Appearance: Form: Odor: Odor threshold:			
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate	Not determined Not determined Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable.	(Contd. on page 3)	
		USA	



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Product name: Scandium(III) chlorid	e hexahydrate	
		(Contd. of page 2)
Solubility in / Miscibility with Water:	Soluble	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known		
Chemical stability Stable under recommendations t	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re	acts with strong oxidizing agents	
Conditions to avoid No further relevant Incompatible materials:	information available.	
Oxidizing agents Water/moisture		
Hazardous decomposition products:		
Hydrogen chloride (HCl) Scandium oxide		
11 Toxicological information		
Information on toxicological effects Acute toxicity: The Registry of Toxic Ef	fects of Chemical Substances (RTECS) contains acute toxicity data for this substance.	
LD/LC50 values that are relevant for c	lassification: No data	
Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause	irritation	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	IWD.	
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	n	
	repeated exposure: No effects known.	
Specific target organ system toxicity	single exposure: No effects known.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	ts known	
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant info Persistence and degradability No furth	ormation available.	
Bioaccumulative potential No further re Mobility in soil No further relevant information	el elevant information available.	
Mobility in soil No further relevant inform Additional ecological information:	nation available.	
General notes:	uantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment.		
Results of PBT and vPvB assessment PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva	unt information quallable	
Ourer adverse enects no futurer releva		
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local of	r national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be m		
Recommended cleansing agent: Wate	r, if necessary with cleansing agents.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group		
DOT, ĂĎŘ, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable. Il of MARPOL73/78 and the IBC Code Not applicable.	
Transport in blick according to Annex Transport/Additional information:		
DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	Not applicable	
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USA (Contd. on page 4)

Product name: Scandium(III) chloride hexahydrate

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HSA

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Hazard statements Not applicable Hazard statements Not applicable National 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 Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page. AbR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime 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 Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCSO: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPVB: very Persistent and very Bioaccumulative ACGIH: American Cherence of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National ToxicoDy Program (USA) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Department issuing SDS: Global Marketing Department