

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier	
Product name: Chromium (III) fluoride, tetrahydrate	
Stock number: A17597 CAS Number:	
68886-78-2 EC number:	
232-137-9	
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	
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) 928-07	89.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
\checkmark	
Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage.	
CIN GHS07	
Acute Tox. 4 H332 Harmful if inhaled.	
Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS05 GHS06	
Signal word Danger	
Hazard statements H301+H311 Toxic if swallowed or in contact with skin.	
H332 Harmful if inhaled. H314 Causes severe skin burns and eye damage.	
Precautionary statements	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P361 I ake off immediately all contaminated clothing. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects E - Corrosive material	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 FIRE 0 Flammability = 0	
FIRE Image: Constraint of the sector of th	
Other hazards Decute of PBT and vPvB accessment	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	USA
	(Contd on page 2)

(Contd. on page 2)

Product name: Chromium (III) fluoride, tetrahydrate

(Contd. of page 1)

	(Contd. of page 1)
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 68866-78-2 Chromium (III) fluoride, tetrahydrate Identification number(s): EC number: 232-137-9	
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product. 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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Dizziness	
Gastric or intestinal disorders. Coughing Headache Causes severe skin burns.	
Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Extinguishing powder. Do not use water. Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released:	
Hydrogen fluoride (HF) 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 Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.	
Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling	
See Section 13 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling	
Precautions for safe handling Handle under dry argon. Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Information about protection against explosions and fires: No information known.	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: Unsuitable material for container: ceramic, glass Information about storage in one common storage facility:	
Store away from oxidizing agents. Do not store together with acids. Excitone information chart attended conditioned	
Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
Store in cool, by conditions in well search containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume 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:	
Chromium (III) compounds, as Cr	
ACGIH TLV 0.5: A4	
Belgium TWA 0.5 Denmark TWA 0.5	
Finland TWA 0.01 France VME 0.5 Japan OEL 0.5	
Japan OEL 0.5 Korea TLV 0.5	(Contd. on page 3)

Safety per OSHA	Data S	Sheet
per OSHA	HazCo	m 2012

Product name: Chromium (III) fluoride, tetrahydrate

Netherlands MAC-TGG 0.5 Norway TWA 0.5 Poland TWA 0.5 Sweden NGV 0.5 United Kingdom TWA 0.5 USA PEL 0.5		(Contd. of page
Fluorides (as F)		
ACGIH TLV 2.5 Austria MAK 2.5 Belgium TWA 2.5 Finland TWA 2.5 France TWA 2.5 Germany MAK 2.5 Hungary TWA 1; 2-STEL Netherlands MAC-K 3.5 Norway TWA 0.6 Poland TWA 1; 3-STEL Sweden NGV 2 Switzerland MAK-W 1.5; 3-KZG-W United Kingdom TWA 2.5 Russia TWA 2 Denmark TWA 2.5 USA PEL 2.5 Additional information: No data		
Exposure controls Personal protective equipment		
General protective and hygienic measures for h	sures	
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the e	and freed.	
Wash hands before breaks and at the e	nd of work.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate v Broathing aguinment: Use suitable res	vorking environment.	
Protection of hands:	spirator when high concentrations are present.	
Impervious gloves		
Check protective gloves prior to each us	se for their proper condition.	
Check protective gloves prior to each us The selection of suitable gloves not only Eve protection:	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
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Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Contact with strong acids releases hydrogen fluoride Contact with acids liberates toxic gas. Conditions to avoid No further relevant information available.

(Contd. on page 4)

Product name: Chromium (III) fluoride, tetrahydrate

Incompatible materials: Oxidizing agents Acids Hazardous decomposition products:	(Contd. of page 3)
Hydrogen fluoride Toxic metal oxide fume	
Hydrogen fluoride Toxic metal oxide fume 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Toxic in contact with skin. Toxic is swallowed. Danger through skin absorption. Swallowing will lead to a strong corrosive effect on mouth and throat and to the LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes severes skin burns. Germ cell mutagenicity: No effects known. Garen cell mutagenicity: No effects known. Carcinogenicity: IARC-3: Not classifiable as to carcinogenicity to humans. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: Chromium powder, chromium (II) and chromium (III) compounds may cause ne likely than Cr(VI) compounds, the NTP considers all chromium to be potentially Fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain cause brain and kidney damage. Chronic fluoride poisoning can cause severee Subacute to chronic toxicity: No effects known. Additional toxicological information: To the b	n to classify the agent in terms of its carcinogenicity in humans and/or animals. wn. ausea, diarrhea, vomiting, skin and eye irritation and pneumoconiosis. Although less y carcinogenic. n, followed by weakness, tremors, shallow respiration, convulsions and coma. May bone changes, loss of weight, anorexia, anemia and dental defects.
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governi Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	r disposal.
14 Transport information	
UN-Number	
DOT, IMDG, IATA UN proper shipping name	UN1756
DOT IMDG, IATA	Chromic fluoride, solid CHROMIC FLUORIDE, SOLID
Transport hazard class(es) DOT	
Class Label	8 Corrosive substances. 8
Class Label IMDG, IATA	δ̃ (C2) Corrosive substances 8
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Acids
	(Contd. on page 5) USA

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oduct name: Chromium (III) fluoride, tetrah	yarate
	(Contd. of pag
Transport in bulk according to Annex II of MARP	OL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1756, Chromic fluoride, solid, 8, II
5 Regulatory information	
Safety, health and environmental regulations/legi	islation specific for the substance or mixture
GHS label elements The product is classified and la Hazard pictograms	abeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS05 GHS06	
Signal word Danger Hazard statements	
H301+H311 Toxic if swallowed or in contact with skin	n.
H332 Harmful if inhaled. H314 Causes severe skin burns and eye dam	age.
Precautionary statements	
P301+P310 IF SWALLOWED Immediately ca	all a POISON CENTER/ doctor/
P3()3+P361+P353 If on skin (or hair): Take off imme	diately all contaminated clothing. Rinse skin with water/shower. h water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361 Take off immediately all contamin	lated clothing.
P405 Store locked up. P501 Dispose of contents/container in a	accordance with local/regional/national/international regulations.
National regulations	Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
SARA Section 313 (specific toxic chemical listing	
68886-78-2 Chromium (III) fluoride, tetrahydrate	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Subs	stance is not listed
Prop 65 - Developmental toxicity Substance is not	listed.
Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance	ce is not listed.
Information about limitation of use:	
For use only by technically qualified individuals. This product contains chromium and is subject to the	e reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986
and 40CFR372.	
Other regulations, limitations and prohibitive reg Substance of Verv High Concern (SVHC) accordi	ulations ng to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Articl	ng to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. e 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t
<i>market and use must be observed.</i> Substance is not listed.	
Annex XIV of the REACH Regulations (requiring A Chemical safety assessment: A Chemical Safety A	Authorisation for use) Substance is not listed.
6 Other information Employers should use this information only as a sum	nlement to other information gathered by them, and should make independent judgement of suitability of this
information to ensure proper use and protect the hea	plement to other information gathered by them, and should make independent judgement of suitability of this alth and safety of employees. This information is furnished without warranty, and any use of the product not ir r in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departu Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	ment
Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandis	es dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DĞR: Dangerous Goods Regulations by the "International Air Tr ICAO: International Civil Aviation Organization	es dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ransport Association" (IATA) ganization" (ICAO)
ICAO-TI: Technical Instructions by the "International Civil Aviation Org ADR: Accord européen sur le transport des marchandises dangereus	janization" (ICAO) es 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 Subst	ances
CAS: Chemical Abstracts Service (division of the American Chemical HMIS: Hazardous Materials Identification System (USA)	Society)
wпиль: workplace наzardous materials Information System (Canada LC50: Lethal concentration, 50 percent	<i>ż)</i>
LDOU: Leinal dose, 50 percent vPvB: very Persistent and very Bioaccumulative	// [CA]
OSHA: Occupational Safety and Health Administration (USA)	USA)
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (ISA)	ganization" (ICAO) es par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) lances Society) a) (USA)
	eu -