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1 I dentification Product tabus Product Produ	Nevision date	Version 1
Product name: Sock number: Stock number: Sock numb	1 Identification	
Stock number: A10047 CFS: Number: CFS: Numb		
Chr.S. Murgher: Comparison Comparison Comparison Comparing	Product name: Sodium chromate, anhydrous	
Details of the supplier of the safety data sheet Manufacturers Supplier: The momental Supplier: The second state of the suppliers of the safety and Environmental Deportment Information Department: Health, Safety and Environmental Deportment Information of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Events Devartment Health Content Information Events Devartment Health Content Information Department For Environmental Department Health Formation Information Information Information Information Information Information Information Information Information Formation Information Inform	CAS Number: 7775-11-3 EC number: 231-889-5 Index number: 024-018-00-3	
Maintecture/Suppler: Thermo:	·	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) With State Tools Acute Tools Acute Tools Acute Tools With State Tools	Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-322-4757 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number:	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) With State Tox. 3 Child Tox. 4 With State Tox. 4 </th <th>2 Hazard(s) identification</th> <th></th>	2 Hazard(s) identification	
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Muta, 1B H340 May cause genetic defects. Care. 1B H350 May cause cancer. Repr. 1A H360 Conversion Stor RE 1 H372 Causes damage to the central nervous system, the lung and the blood through prolonged or repeated exposure. Route of exposure: Inhalation. Image: Conversion Skin Corr. 1B H314 Causes series even skin burns and eye damage. Eye Dam, 1 H318 Causes series even skin burns and eye damage. Eye Dam, 1 H318 Causes series even skin burns and eye damage. Eye Dam, 1 H317 May cause an allergic skin reaction. Harards not otherwise classified to information known. Harards not otherwise classified to information known. Label elements GHS05 GHS05 GHS06 GHS06 Signal word Signal word Signal word H317 May cause an allergic skin reaction. Harards not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) H320 GHS05 GHS06 GHS08 GHS08 GHS18bo Lements Harard statements H3317 May cause and allegic skin reaction. Harard statements H3317 May cause and allegic skin reaction. Harard statements H332 GHS18bo GHS06 GHS08 GHS18bo GHS06 GHS18bo Lements Harrin	GHS08 Health hazard	
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Skin Sens. 1 H317 May cause an allergic skin reaction. Hazards not otherwise classified No. Information known. Label elements GHS label elements GHS label elements With Sense With Sense With Sense With Sense With Sense Signal word Danger Hazard statements H317 May cause and level skin. H320 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H330 Fatal if inhaled. H314 Causes severe skin burns and eye damage. H334 May cause an allergic skin reaction. H330 Fatal if inhaled. H317 May cause an allergic skin reaction. H334 May cause cancer. H3360 May cause cancer. H360 May cause cancer. H374 Causes severes. H374 Causes severes. H375 Causes during to the unborn child. H372 Causes during to the origon child. H372 Causes during to the cancer. H360 May cause genetic defects. H370 Toxic if swallowed. H372 Causes during to the cancer. H360 May cause for level and the blood through prolonged or repeated exposure. Route of exposur	Eye Dam. 1 H318 Causes serious eye damage.	
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Signal word Danger Hazard statements H301 Toxic if swallowed. H311 Harmful in contact with skin. H330 Fatal if inhaled. H330 Fatal if inhaled. H341 Causes severe skin burns and eye damage. H314 Causes severe skin burns and eye damage. H314 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause genetic defects. H340 May cause cancer. H360 May damage fertility or the unborn child. H372 Causes damage to the central nervous system, the lung and the blood through prolonged or repeated exposure. Route of exposure: Inhalation. 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. P305 Specific treatment is urgent (see on this label). P405 Dispose of contents/container in accordance with local/regional/national/international regulations. WHIIS classification WHIIS classification		
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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. P300 Specific treatment is urgent (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification		
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DIA - Very toxic material causing IIIIInediate and serious toxic effects	WHMIS classification	
(Contd. on page 2)	D1A - Very toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects (Con	ntd. on page 2) USA



Product name: Sodium chromate, anhydrous

(Contd. of page 1)



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(Contd. o	of page 2)
7 Handling and storage	
Handling Precautions for safe handling	
Handle under dry protective gas.	
Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Ensure good ventilation at the workplace. Open and handle container with care.	
Unly handle and refill product in closed systems.	
Information about protection against explosions and fires: The product is not flammable	
Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility:	
Information about storage in one common storage facility: Store away from water/moisture. Store away from strong bases.	
Store away from reducing agents. Further information about storage conditions:	
Store under dry inert gas.	
I his product is hvaroscopic.	
Keep container tightly séaled. Store in cool, dry conditions in well sealed containers.	
Protect from humidity and water. Specific end use(s) No further relevant information available.	
8 Experience control of a sector fier	
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: 7775-11-3 Sodium chromate (100.0%)	
PEL (USA) Long-term value: 0.005* mg/m ³	
Ceiling limit value: 0.1** mğ/m³ *as Cr(VI) **as CrO3; see 29 CFR 1910.1026	
REL (USA) Long-term value: 0.0002 mg/m³ as Cr; See Pocket Guide Apps. A and C	
TLV (USA) Long-term value: 0.05 mg/m ³	
as Cr; BEI	
EL (Canada) Long-term value: 0.025 mg/m ³ Ceiling limit value: 0.1 mg/m ³	
as Cr, ACGIH A1, IARC 1	
Ingredients with biological limit values: 7775-11-3 Sodium chromate (100.0%)	
BEI (USA) 25 µg/L	
Medium: urine Time: end of shift at end of workweek	
Parameter: Total chromium (fume)	
10 µg/L Medium: urine	
Time: increase during shift	
Parameter: Total chromium (fume) Additional information: No data	
Exposure controls	
Personal protective equipment General protective and hygienic measures	
The usual precautionary measures for handling chemicals should be followed.	
Keep away from foodsfuffs, beverages and feēd. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Wash hands before breaks and at the end of work. Store protective clothing separately.	
Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use self-contained respiratory protective device in emergency situations. Recommended filter device for short term use:	
Breathing equipment: Use self-contained respiratory protective device in emergency situations.	
Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	air-
purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:	
Impervious aloves	
Check protective gloves prior 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. Material of gloves Nitrile rubber, NBR	
Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480	
Glove thickness: 0.11 mm	
Eye protection: Tightly sealed goggles	
Full face protection Safety glasses with side shields / NIOSH (US) or EN 166(EU)	
Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties	
General Information Appearance:	
Form: Crystalline	
Odor: Odorless (Contd. or	n nare 41
Conta. or	USA -



Product name: Sodium chromate, anhydrous

Product name: Socium chromate, al	nnyarous	
		Contd. of page 3)
Odor threshold:	Not determined.	
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable. 792 °C (1458 °F) Not determined Not determined Not determined. Not determined Not determined Not determined. Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not applicable. 2.72 g/cm ³ (22.698 lbs/gal) Not determined. Not applicable. Not applicable. 530 g/l Soluble	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Bases Reducing agents Water/moisture Hazardous decomposition products: Sodium oxide Chromium oxides	to be avoided: Decomposition will not occur if used and stored according to specifications. Pacts with strong oxidizing agents	
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful in contact with skin. Fatal if inhaled. Toxic if swallowed. Danger through skin absorption. Swallowing will lead to a strong corrosive. The Registry of Toxic Effects of Chemics. LD/LC50 values that are relevant for c	e effect on mouth and throat and to the danger of perforation of esophagus and stomach. al Substances (RTECS) contains acute toxicity data for this substance. :lassification:	
Oral LD50 136 mg/kg (rat)	nassmaaton.	
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes se Sensitization: May cause allergy or asthma symptoms May cause an allergic skin reaction. Germ cell mutagenicity: May cause genetic defects. The Registry of Toxic Effects of Chemica Carcinogenicity: May cause cancer. IARC-1: Carcinogenic to humans: suffici ACGIH A1: Confirmed human carcinoge NTP-K: Known to be carcinogenic: suffici (inhalation) EPA-A: human carcinogen	rious eye damage. or breathing difficulties if inhaled. al Substances (RTECS) contains mutation data for this substance.	osed humans.
Reproductive toxicity: May damage fertility or the unborn child. The Registry of Toxic Effects of Chemica	al Substances (RTECS) contains reproductive data for this substance.	
Causes damage to the central nervous s Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec		
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 inf Persistence and degradability No furth	ormation available. her 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.

Product name: Sodium chromate, anhydrous	
Ecotoxical effects: Remark: Very toxic for aquatic organisms Additional ecological information: General notes: Do not allow material to be released to the environment without proper govern. Do not allow product to reach ground water, water course or sewage system, e Danger to drinking water if even extremely small quantities leak into the ground Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment. Very toxic for aquatic organisms Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of page 4) even in small quantities. d.
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations to ensure prope Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.	r disposal.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN3288
UN proper shipping name DOT ADR IMDG, IATA	Toxic solid, inorganic, n.o.s. (Sodium chromate, anhydrous) 3288 Toxic solid, inorganic, n.o.s. (Sodium chromate, anhydrous) TOXIC SOLID, INORGANIC, N.O.S. (Sodium chromate, anhydrous)
Transport hazard class(es) DOT	
Class Label ADR	6.1 Toxic substances 6.1
Class Label IMDG, IATA	6.1 (T5) Toxic substances 6.1
Class Label	6.1 Toxic substances 6.1
Packing group DOT, ADR, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user EMS Number: Stowage Category	Warning: Toxic substances F-A,S-A B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	de Not applicable.
Transport/Additional information: DOT	
Quantity limitations Marine Pollutant (DOT):	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg No
IMDG Limited quantities (LQ) Excepted quantities (ÉQ)	500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 3288 TOXIC SOLID, INORGANIC, N.O.S. (SODIUM CHROMATE, ANHYDROUS), 6.1, II

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms

Hazard pictograms GHS05 GHS06 GHS08

Signal word Danger

Product name: Sodium chromate. anhvdrous

Product name: Sodium chromate, anhydrous	
	f
Hazard statements	d. of page 5)
Hazaru statements H301 Toxic if swallowed.	
H312 Harmful in contact with skin.	
H330 Fatal if inhaled.	
H314 Causes severe skin burns and eye damage.	
H334 May cause allergy or asthma symptoms ŏr breathing difficulties if inhaled. H317 May cause an allergic skin reaction.	
H317 May cause an allergic skin reaction.	
H340 May cause genetic defects.	
H350 May cause cancer.	
H360 May damage fertility or the unborn child.	
H372 Causes damage to the central nervous system, the lung and the blood through prolonged or repeated exposure. Route of exposure: Inhalation.	
Precautionary statements	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P361+P3553 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P3037730177333110178411 (0171411). Take on infinediately an containinated cioling. Rhise skin with water/shower.	
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. P320 Specific treatment is urgent (see on this label).	
P320 Specific treatment is urgent (see on this label). P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
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 in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL).	
SARA Section 313 (specific toxic chemical listings)	
7775-11-3 Sodium chromate	
California Proposition 65	
Prop 65 - Chemicals known to cause cancer	
7775-11-3 Sodium chromate	
Prop 65 - Developmental toxicity	
7775-11-3 Sodium chromate	
Prop 65 - Developmental toxicity, female	
7775-11-3 Sodium chromate	
Prop 65 - Developmental toxicity, male	
7775-11-3 Sodium chromate	
Information about limitation of use:	
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.	
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.	
This substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).	
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. This substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH). The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing	ng on the
market and use must be observed.	
Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
16 Other information	e
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 conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	ct 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.	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
IMDG: International manufile Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
HMIS: Hazardous Materials Identification System (USA)	
WHMIS: Workplace Hazardous Materials Information System (Canada)	
LUSO. Lethial concentration, SU percent LDSO: Lethial concent	
PBT: Persistent, Bioaccumulative and Toxic	
SVHC: Substances or very High Concern vPVR: very Persistent and very Riancerumulative	
ACCIH: American Conference of Governmental Industrial Hygienists (USA)	
OSHA: Occupational Safety and Health Administration (USÅ)	
NTE: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	
EPA: Environmental Protection Agency (USA)	
Acute Tox. 3: Acute toxicity – Cafegory 3 Acute Tox d: Acute toxicity – Cafegory 4	
Department resulting USE: Collocation Maintening Departments Department of transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association IATA: International Air Transport Association INTECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CMS: Substances of Very High Concern VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Jagency (VSA) Acute Tox: 4: Acute toxicity - Category 4 Acute Tox: 4: Acute toxicity - Category 4 Acute Tox: 4: Acute toxicity - Category 1 Skin Corr. 1B: Skin corrosion/Irritation - Category 1 Kesp. Sens. 1: Kespiratory sensitisation - Category 1 Skin Sens. 1: Skin Sensitisation - Category 1 Ski	
Skin Corr. 1B: Skin corrosion/irritation – Category 1B	
zye Dami. Ti senouse we damage/eye imtation – Category 1 Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens, 1: Skin sensitisation – Category 1	

Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 1B: Germ cell mutagenicity – Category 1B Carc. 1B: Carcinogenicity – Category 1B Repr. 1A: Reproductive toxicity – Category 1A STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

USA