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Version 4
1 Identification
Product identifier
Product name: Lithium chromate dihydrate
Stock number: 47383 CAS Number: 7789-01-7
EC number:
238-244-7 Index number:
024-017-00-8 Relevant identified uses of the substance or mixture and uses advised against. No further relevant information available. 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) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS08 Health hazard
Carc. 1B H350 May cause cancer.
С GHS07
Skin Sens. 1 H317 May cause an allergic skin reaction. 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
$\Lambda$
GHS07 GHS08
Signal word Danger Hazard statements
H317 May cause an allergic skin reaction.
H350 May cause cancer." Precautionary statements P201 Obtain special instructions before use.
P261 Avoid breathing dustrume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification
D2A - Very toxic material causing other toxic effects
$\widehat{\mathbf{T}}$
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH 2 Health (acute effects) = 2 FIRE 0 Flammability = 0
REACTIVITY 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: 7789-01-7 Lithium chromate dihydrate
Concentration: ≤100%
Identification number(s): EC number: 238-244-7
Index number: 024-017-00-8
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Product name: Lithium chromate dihydrate

	(Contd. of page 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 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	
May cause an allergic skin reaction.	
May cause cancer. 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	
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Toxic metal oxide fume	
Lithium 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	
Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up:	
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	
Reference to other sections See Section 7 for information on safe handling	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
Protective Action Criteria for Chemicals PAC-1: Substance is not listed.	
PAC-2: Substance is not listed.	
PAC-3: Substance is not listed.	
7 Handling and storage	
Handling Precautions for safe handling	
Keep container tightly sealed. Store in cool, dry place in tightly closed containers.	
Ensure good ventilation at the workplace. Open and handle container with care.	
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: Store away from oxidizing agents.	
Further information about storage conditions:	
Keep container tightly sealed. Store in cool, dry conditions in well sealed 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	
<b>Components with limit values that require monitoring at the workplace:</b> 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 and hygienic measures	
The usual precautionary measures for handling chemicals should be followed.	
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The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately. Maintain an ergonomically appropriate working environment. <b>Breathing equipment:</b> Use suitable respirator when high concentrations are present. <b>Protection of hands:</b> Impervious gloves Check protective gloves prior to each use for their proper condition	
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## Product name: Lithium chromate dihydrate

## В

Body protection: Protective work cloth	ng.	
9 Physical and chemical properties	;	
Information on basic physical and ch	emical properties	
General Information		
Appearance: Form:	Dourdor	
Odor:	Powder Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition	Not determined	
Melting point/Melting range: Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
Density: Balativa danaity	Not determined Not determined.	
Relative density Vapor density		
Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water:	Not determined	
Partition coefficient (n-octanol/water)	: Not determined.	
Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known		

Reactivity No information known. 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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Toxic metal oxide fume Lithium oxide 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: May cause an allergic skin reaction. Germ cell mutagenicity: No effects known. Carcinogenicity: Carcinogenicity: No enects known. May cause cancer. EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer. IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity. ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans. NTP-K: Known to be carcinogenic: sufficient evidence from human studies. 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. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects 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 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. Ecotoxical effects: Remark: Very toxic for aquatic organisms Additional ecological information: General notes: Additional ecological miorination. General notes: Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even 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 toyie for aquatic organisms. Very toxic for aquatic organisms Results of PBT and vPvB assessment PBT: Not applicable.

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oduct name: Lithium chromate dihydrate	
vPvB: Not applicable.	(Contd. of pa
Other adverse effects No further relevant information a	available.
3 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regula	lations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be made according t	to official regulations
· · · · ·	
Transport information     UN-Number	
DOT, IMDG, IATA	UN3077
UN proper shipping name DOT	Environmentally hazardous substances, solid, n.o.s. (Lithium chromate)
ADR	3077 Environmentally hazardous substances, solid, n.o.s. (Lithium chromate)
IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCÉ, SOLID, N.O.S. (Lithium chromate)
Transport hazard class(es)	
DOT, IMDG	
ر شهر م	
Class Label	9 Miscellaneous dangerous substances and articles
ADR	J. J
AL A	
Class	9 (M7) Miscellaneous dangerous substances and articles
Label IATA	9
All A	
Class	9 Miscellaneous dangerous substances and articles
Label Packing group	9
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Special marking (ADR):	Symbol (fish and tree)
Special marking (IATÁ):	Symbol (fish and tree)
Special precautions for user EMS Number:	Warning: Miscellaneous dangerous substances and articles F-A.S-F
Stowage Category Stowage Code	A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
Transport in bulk according to Annex II of MARPOL	· · · · · · · · · · · · · · · · · · ·
Transport/Additional information:	
DOT Overstitut limitations	On a second strength (sec) Marking it
Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
Marine Pollutant (DOT):	No
IMDG Limited quantities (LQ)	5 kg
Excepted quantities (ÉQ)	Code: E1 Maximum net quantity per inner packaging: 30 g
	Maximum net quantify per outer packaging: 1000 g
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LITHIUM CHROMATE), 9, III

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



 Signal word Danger

 Hazard statements

 H317 May cause an allergic skin reaction.

 H350 May cause cancer.

 Precautionary statements

 P201
 Obtain special instructions before use.

 P261
 Avoid breathing dust/fume/gas/mist/vapors/spray

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P308+P313 IF exposed or concerned: Get medical advice/attention.

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 5) USA

## Product name: Lithium chromate dihydrate

## National regulations

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IVIF: National LOXICOlogy Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Sens. 1: Skin sensitisation – Category 1 Carc. 1B: Carcinogenicity – Category 1B