



1 Identification Product identifier Product name: Calcium tungsten oxide Stock number: 13051

CAS Number: 7790-75-2 EC number: 232-219-4 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. Inerrito Fisher Scheman C. 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel 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 (acute effects) = 0 Flammability = 0 Flammability = 0 Physical Hazard = 0

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 7790-75-2 Calcium tungsten oxide Identification number(s): EC number: 232-219-4

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 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:

Metal oxide fume 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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required.

(Contd. on page 2)

Product name: Calcium tungsten oxide

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Product name: C	Jaicium tungsten oxi	ae	
See Section 7 See Section 8	o other sections 7 for information on safe har. 8 for information on persona. 13 for disposal information.	ndling I protection equipment.	(Contd. of page 1)
Keep contains Store in cool, Information a Conditions fo Storage Requirement Information a Further infor	for safe handling er tightly sealed. dry place in tightly closed of about protection against e for safe storage, including ts to be met by storerooms	explosions and fires: The product is not flammable any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. ditions:	
8 Exposure c Additional in Properly oper Control para	controls/personal protect formation about design of rating chemical fume hood d meters	ction f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
	alcium tungsten oxide (100	uire monitoring at the workplace:	
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EL (Canada)	as Ŵ Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ as W	3	
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Information of General Infor Appearance: Form: Color: Odor:	:	Powder Not determined Not determined	
Odor thresho		Not determined.	
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Other information No further relevant information available. 10 Stability and reactivity 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 at Possibility of hazardous reactions known Conditions to avoid No further relevant information available. Bases Bases Decomposition products: Metal oxide fume 11 Toxicological information Information or toxicological effects Information or corrosion: May cause irritation Skin irritation or corrosion: May cause irritation Skin irritation or corrosion: May cause irritation Sectific target organ system toxicity: repeated exposure: No effects known. Specific target organ system toxicity: repeated exposure: No effects known. Specific target organ system toxicity: repeated exposure: No effects known. Additional toxicological information Toxicological information Toxicological information Voltational available. Base available. Specific target organ system toxicity: repeated exposure: No effects known. Additional exponential No further relevant information available. Reparation information Specific target organ system toxicity or the best of our knowledge the acute and chronic toxicity of this 12 Ecological information Toxicit		(Contd. of pag
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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 of All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65	Control Act Chomical Substance Inventiony.	
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.		

Product name: Calcium tungsten oxide

Contd. of page 3 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 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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

conformance with this Material 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 / last revision 11/24/2015 / -Abbreviations and acronyms: RD: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ICAO: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ENTE: St. European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (CAnada) LC50: Lethal dose, 50 percent USD: Very Persistent and very Bicaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATE: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IATE: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA)

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USA