



1 Identification of the substance/mixture and of the company/undertaking
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Trade name Calcium turnings
Stock number: 10125
CAS Number:
7440-70-2 EC number:
231-179-5 Index number:
020-001-00-X
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:
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
Email: tech@alfa.com www.alfa.com
Informing department: Product safety department.
Emergency telephone number: During normal business hours, call (800) 579-7421. During normal business hours, call Carechem 24 at (800) 579-7421.
2 Hazards identification
Classification of the substance or mixture
Flame
Substances and Mixtures Which, in Contact with Water, Emit Flammable Gases - H261 In contact with water releases flammable gas.
Category 2 Other hazards that do not result in classification No information known.
Label elements
GHS label elements The substance is classified and labelled according to the Globally Harmonised System (GHS). Hazard pictograms
GHS02
Signal word Danger
Hazard statements
H261 In contact with water releases flammable gas.  Precautionary statements
P223 Do not allow contact with water
P231+P232 Handle and store contents under inert gas. Protect from moisture. P280 Wear protective gloves/protective clothing/eye protection/face protection. P370+P378 In case of fire: Use to extinguish: CO2, sand, extinguishing powder. P400-P404 Store in a dru place. Store in a close of extinguishing powder.
P3/0+P3/8 In case of tire: Use to extinguish: CO2, sand, extinguishing powder. P402+P404 Store in a dry place. Store in a closed container. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Composition/information on ingredients
Chemical characterisation: Substances
CAS# Designation: 7440-70-2 Calcium
Concentration: <100% Identification number(s):
<b>EC number:</b> 231-179-5
Index number: 020-001-00-X
4 First aid measures
Description of first aid measures
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice. After skin contact
Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eve contact Rinse opened eve for several minutes under running water. Then consult 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 Firefighting measures
Extinguishing media Suitable extinguishing agents Special powder for metal fires. Do not use water.
For safety reasons unsuitable extinguishing agents Water. Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Calcium oxide (Contd. on page 2
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		Version number 1
Trade name Calcium turnings		
Advice for firefighters		(Contd. of page 1)
Protective equipment:		
Wear self-contained breathing apparatus. Wear full protective suit.		
6 Accidental release measures		
Personal precautions, protective equip	ment and emergency procedures	
Wear protective equipment. Keep unprote Ensure adequate ventilation	cted persons away.	
Keep away from ignition sources Environmental precautions: Do not allow	v material to be released to the environment without proper governmental permits.	
Methods and material for containment a Keep away from ignition sources.	and cleaning up:	
Ensure adequate ventilation. Do not flush with water or aqueous cleans	ing agents	
Do not flush with water or aqueous cleans Prevention of secondary hazards: Keep Reference to other sections	away from ignition sources.	
See Section 7 for information on safe nan See section 8 for information on personal	aing protection equipment.	
See Section 13 for information on disposa	l.	
7 Handling and storage		
Handling Precautions for safe handling		
<b>Precautions for safe handling</b> Handle under dry protective gas. Keep containers tightly sealed.		
Keep containers tightly sealed. Store in cool, dry place in tightly closed co Ensure good ventilation/exhaustion at the	ntainers. workplace.	
Reacts violently with water	plosions and fires: Protect from humidity and keep away from water.	
Conditions for safe storage, including a		
	and containers: No special requirements.	
Information about storage in one comm Store away from air.	ion storage racinty:	
Store away from water. Further information about storage cond	litions:	
Store under dry inert gas. Keep container tightly sealed.		
Store in cool, dry conditions in well sealed Protect from humidity and keep away from	i water.	
Specific end use(s) No further relevant in		
8 Exposure controls/personal protec Additional information about design of		
Properly operating chemical fume hood de	signed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with critical values that re	quire monitoring at the workplace:	
Additional information: No data	quantities of materials with critical values that have to be monitored at the workplace.	
Exposure controls Personal protective equipment		
General protective and hygienic measu The usual precautionary measures should	res be adhered to in handling the chemicals	
Keep away from foodstuffs, beverages an Instantly remove any soiled and impregna	d food.	
Wash hands during breaks and at the end	of the work	
Maintain an ergonomically appropriate wo Breathing equipment: Use breathing pro Recommended filter device for short te	tection with high concentrations.	
Use a respirator with type P100 (USA) or I	P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to use equipment tested and approved under appropriate government standards.	determine if air-
Protection of hands:	for their proper condition	
The selection of the suitable gloves does i Material of gloves Nitrile rubber NRP	not only depend on the material, but also on further marks of quality and varies from manufacturer to m	anufacturer.
Penetration time of glove material (in m	inutes) 480	
Glove thickness: 0.11 mm Eye protection:		
Full face protection Safety glasses with side shields / NIOSH (	(US) or EN 166(EU)	
Bodý protection: Protective work clothing	].	
9 Physical and chemical properties	nical proportion	
Information on basic physical and cher General Information	nical properties	
Appearance: Form:	Solid in various forms:	
Odour: Odour threshold:	Odourless Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point:	842 °C	
Initial boiling point and boiling range: Sublimation temperature / start:	Not determined	
Inflammability (solid, gaseous)	Contact with water liberates extremely flammable gases.	(Contd. on page 3)

## Trade name Calcium turnings

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	(Contd. of pag
Ignition temperature: Decomposition temperature: Self-inflammability:	Not determined Not determined Not determined.
Explosive properties:	Not determined.
Critical values for explosion:	
Lower: Upper:	Not determined Not determined
Steam pressure at 20 °C: Density at 20 °C	0 hPa
	1,54 g/cm <sup>3</sup>
Settled apparent density at 20 °C Relative density	700 kg/m³ Not determined.
Vapour density Evaporation rate	Not applicable. Not applicable.
Solubility in / Miscibility with	
Water: Partition coefficient: n-octanol/water: Viscosity:	Contact with water releases flammable gases Not determined.
dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
10 Stability and reactivity	
Reactivity In contact with water releases	flammable gases which may ignite spontaneously.
Chemical stability Stable under recomm Thermal decomposition / conditions to	<b>be avoided:</b> No decomposition if used and stored according to specifications.
Possibility of hazardous reactions Con Conditions to avoid No further relevant	tact with water releases flammable gases
Incompatible materials:	niormation available.
Air Water/moisture	
Hazardous decomposition products: C	alcium oxide
11 Toxicological information	
Information on toxicological effects	
Acute toxicity No effects known	· · · · · · · · · · · · · · · · · · ·
LD/LC50 values that are relevant for cl Skin irritation or corrosion: May cause	assification: No data
Eve irritation or corrosion: May cause i	irritation
Respiratory or skin sensitisation No se Germ cell mutagenicity: No effects know	insitizing effect known.
Carcinogenicity: No classification data d	n carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
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	
Additional toxicological information: T	o 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 furthe	
Rehaviour in environmental systems	
Bioaccumulative potential No further re Mobility in soil No further relevant inform	ievant information available. nation available.
Additional ecological information: General notes:	
Do not allow material to be released to th	e environment without proper governmental permits.
Avoid transfer into the environment. Results of PBT and vPvB assessment	
<b>PBT</b> : Not applicable. <b>vPvB</b> : Not applicable.	
vPvB: Not applicable. Other adverse effects No further relevant	nt information available.
13 Disposal considerations	
Waste treatment methods Recommendation	
Hand over to disposers of hazardous was	ste.
Must be specially treated under adherend Consult state, local or national regulation	e to otticial regulations. s for proper disposal
Uncleaned packagings:	
Recommendation: Disposal must be ma	
14 Transport information	
UN-Number TDG, IMDG, IATA	UN1401
UN proper shipping name	
DOT TDG	Calcium 1401 CALCIUM
IDG IMDG, IATA	CALCIUM
· · · · ·	(Contd. on pag

Transport hazard class(es) Class TDG (Transport dangerous goods): Class Label IMDG Class Label IMDG Class Label Class Label Packing group TDG, IMDG, IATA Packing group TDG, IMDG, IATA Environmental hazards: Special precautions for user EMS Number: Stowage Category Handling Code Segregation Code Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: Excepted quantities (EQ): Limited quantities (EQ) Transport category Transport category Transport category Transport category Transport category Transport category Transport category Transport category Transport category Transport category Tunnel restriction code IMDG Limited quantities (EQ) Limited quantities (EQ)	E2 500 g Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g 2 D/E
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Stowage Category Handling Code Segregation Code Transport in bulk according to Annex II of Marpol and the IBC Code Transport/Additional information: Excepted quantities (EQ): Limited quantities (EQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG Limited quantities (LQ) Excepted quantities (EQ) UN "Model Regulation": Regulatory information Safety. health and environmental regulations/legislation specific fo	E H1 Keep as dry as reasonably practicable SG26 In addition: from goods of classes 2.1 and 3 when stowed on deck of a containers a minimum distance of two container spaces athwartship shall be maintained, when stor on ro-ro ships a distance of 6 m athwartship shall be maintained. SG35 Stow "separated from" acids. e Not applicable. E2 500 g Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g 2 D/E
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Regulatory information Safety, health and environmental regulations/legislation specific fo	500 g Code: E2
Fregulatory information Safety, health and environmental regulations/legislation specific fo	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
Safety, health and environmental regulations/legislation specific fo	UN 1401 CALCIUM, 4.3, II
Australian Inventory of Chemical Substances Substance is listed. Standard for the Uniform Scheduling of Medicines and Poisons Sub GHS label elements The substance is classified and labelled according Hazard pictograms GHS02	
Signal word Danger Hazard statements H261 In contact with water releases flammable gas. Precautionary statements P223 Do not allow contact with water. P231+P232 Handle and store contents under inert gas. Protect from mo P280 Wear protective gloves/protective clothing/eye protection/fa P370+P378 In case of fire: Use to extinguish: CO2, sand, extinguishing P402+P404 Store in a dry place. Store in a closed container. P501 Dispose of contents/container in accordance with local/region National regulations All components of this product are listed in the U.S. Environmental Prote All components of this product are listed on the Canadian Domestic Sub Information about limitation of use: For use only by technically qualified	ional/national/international regulations. ection Agency Toxic Substances Control Act Chemical substance Inventory. bstances List (DSL).
Classification according to VbF: Not applicable Water hazard class: Generally not hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not	t been carried out.
Other information Employers should use this information only as a supplement to other information to ensure proper use and protect the health and safety of en	formation gathered by them, and should make independent judgement of suitability of this nployees. This information is furnished without warranty, and any use of the product not i ner product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

## Trade name Calcium turnings

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CA

- Abbreviations and acronyms: ICAO: International Civil Aviation Organisation IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstrats Service (division of the American Chemical Society) VbF: Verordnung über brennbare Flüssigkeiten, Osterreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent PBT: Persistent, Bloaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety and Health Administration (USA) TLY: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit