

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 24-Dec-2021

Revision Number 4

	1. Identification
Product Name	Calcium
Cat No. :	AC201180000; AC201180025; AC201180050; AC201181000; AC201185000
CAS No Synonyms	7440-70-2 Calcium Metal.; Calcicat
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the	safety data sheet
Company	

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Substances/mixtures which, in contact with water, emit Category 2 flammable gases

Label Elements

Signal Word Danger

Hazard Statements

In contact with water releases flammable gas



Precautionary Statements

Prevention

Keep away from any possible contact with water, because of violent reaction and possible flash fire Handle under inert gas. Protect from moisture

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

Skin

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a dry place. Store in a closed container

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Calcium	7440-70-2	99	
	4 First-aid measures		

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
Inhalation	Remove from exposure, lie down. Remove to fresh air.
Ingestion	Clean mouth with water. Get medical attention.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available

Flammability 2 6. Accidental re Ensure adequate ventilation See Section 12 for addition	n. Use personal protective eq	Physical hazards W
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See Section 12 for addition		
n Sweep up and shovel into		
	suitable containers for dispos	al. Do not expose spill to water. Do
not let this chemical enter	the environment.	
7. Handling	and storage	
Do not allow contact with v	vater. Avoid contact with skin	
and clothing. Do not ingest from moisture.	t. If swallowed then seek imm	ediate medical assistance. Protect
	conois. Ammonia. Haiogens.	oxygen.
· ·		
None under normal use co	nditions.	
Wear appropriate protectiv	e evealasses or chemical safe	ety goggles as described by
Wear appropriate protectiv	e gloves and clothing to preve	ent skin exposure.
No special protective equip	oment required.	
Handle in accordance with	good industrial hygiene and s	safety practice.
. Physical and ch	emical properties	
	 7. Handling Do not allow contact with v and clothing. Do not ingest from moisture. Keep in a dry, cool and we moisture. Keep from any p Strong oxidizing agents. A Xposure controls This product does not cont limitsestablished by the reg None under normal use co Wear appropriate protective OSHA's eye and face prote EN166. Wear appropriate protective No special protective equip Handle in accordance with Physical and ch 	Keep in a dry, cool and well-ventilated place. Keep cont moisture. Keep from any possible contact with water. In Strong oxidizing agents. Alcohols. Ammonia. Halogens. xposure controls / personal protect This product does not contain any hazardous materials limitsestablished by the region specific regulatory bodies None under normal use conditions. Wear appropriate protective eyeglasses or chemical saf OSHA's eye and face protection regulations in 29 CFR

Odor	Odorless
Odor Threshold	No information available
pH	14
Melting Point/Range	845 °C / 1553 °F
Boiling Point/Range	1484 °C / 2703.2 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Reacts violently with water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Ca
Molecular Weight	40.07

10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Moisture sensitive.	
Conditions to Avoid	Incompatible products. Exposure to moist air or water.	
Incompatible Materials	Acids, Strong oxidizing agents, Alcohols, Ammonia, Halogens, oxygen	
Hazardous Decomposition Products Hydrogen, Calcium oxides		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

Acute Toxicity

11. Toxicological information

Product Informatio		No acute toxicity in	nformation is availa	able for this produc	rt	
Component Inform Toxicologically Syn Products		No information ava	ailable			
Delayed and immed	diate effects as v	vell as chronic effe	ects from short an	d long-term expo	sure_	
Irritation		No information available				
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Calcium	7440-70-2	Not listed	Not listed	Not listed	Not listed	Not listed

Component	CAS NO	IARC	NIF	ACGIN	USHA	Wexico
Calcium	7440-70-2	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
-						
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Reacts with water so no ecotoxicity data for the substance is available. Do not empty into drains.

Persistence and Degradability Persistence is unlikely based on information available.			
Bioaccumulation/ Accumulation No information available.			
Mobility	Is not likely mobile in the environment.		
	13. Disposal considerations		
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and		

	14. Transport information
DOT	
UN-No	UN1401
Proper Shipping Name	CALCIUM
Hazard Class	4.3
Packing Group	II
TDG	
UN-No	UN1401
Proper Shipping Name	CALCIUM
Hazard Class	4.3
Packing Group	II
IATA	
UN-No	UN1401
Proper Shipping Name	CALCIUM
Hazard Class	4.3
Packing Group	II
IMDG/IMO	
UN-No	UN1401
Proper Shipping Name	CALCIUM
Hazard Class	4.3
Packing Group	l
	15. Regulatory information

national hazardous waste regulations to ensure complete and accurate classification.

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Calcium	7440-70-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Calcium	7440-70-2	Х	-	231-179-5	Х	Х		Х	Х	KE-04462

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

<u>U.S.</u>	Federal	Regulations	
		-	

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Calcium	Х	Х	Х	-	Х	
U.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollut	N N					
U.S. Department of Home Security	eland This pro	duct does not conta	in any DHS chemicals.			
Other International Regu	lations					
Mexico - Grade	No infor	No information available				
Authorisation/Restriction	ns according to EU	REACH				

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic	Ozone Depletion	Restriction of

			Pollutant	Potential	Hazardous Substances (RoHS)
Calcium	7440-70-2	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Calcium	7440-70-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	22-Sep-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS