

SAFETY DATA SHEET

Creation Date 22-September-2009 Revision Date 19-January-2018 Revision Number 3

1. Identification

Product Name Calcium

Cat No.: AC201380000; AC201381000; AC201385000

CAS-No 7440-70-2

Synonyms Calcium Metal.; Calcicat

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Importer/DistributorManufacturerFisher ScientificAcros OrganicsFisher Scientific112 Colonnade Road,One Reagent LaneOne Reagent LaneOttawa, ON K2E 7L6,Fair Lawn, NJ 07410Fair Lawn, NJ 07410CanadaTel: (201) 796-7100

Tel: 1-800-234-7437

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

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Substances/mixtures which, in contact with water, emit Category 2 Gas(es) = Hydrogen flammable gases

Label Elements

Signal Word

Danger

Hazard Statements

In contact with water releases flammable gas



Precautionary Statements

Prevention

Do not allow contact with water

Handle under inert gas. Protect from moisture

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

Response

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

Store in a dry place. Store in a closed container

Disposal

Dispose of contents/container to an approved waste disposal plant

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 ContactWash 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. Move to fresh air.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Water reactive. Produce flammable gases on contact with water.

Hazardous Combustion Products

Hydrogen Calcium oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards120W

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not **Up** expose spill to water. Do not let this chemical enter the environment.

7. Handling and storage

Handling Do not allow contact with water. Avoid contact with skin and eyes. Avoid contact with

clothing. Do not ingest. Protect from moisture.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from

moisture. Never allow product to get in contact with water during storage.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection Goggles

Hand Protection Protective gloves

Г	Glove material	Breakthrough time	Glove thickness	Glove comments
	Natural rubber	See manufacturers	-	Splash protection only
	Nitrile rubber	recommendations		
	Neoprene			
	PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

No special protective equipment required.

Recommended Filter type: Particulates filter conforming to EN 143

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before

breaks and at the end of workday.

9. Physical and chemical properties

14

Physical StateSolidAppearanceGreyOdorOdorless

Odor Odorless
Odor Threshold No information available

pH

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

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density

Not applicable

Specific GravityNo information availableSolubilityReacts violently with water

Partition coefficient; n-octanol/water No data available

Autoignition Temperature Decomposition Temperature

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.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

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 national hazardous waste regulations to ensure complete and accurate classification.

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

UN1401
Proper Shipping Name
Hazard Class
Packing Group

UN1401

CALCIUM

4.3

15. Regulatory information

Revision Date 19-January-2018

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Calcium	Х	-	Χ	231-179-5	-		Χ	-	Х	Х	X

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Creation Date22-September-2009Revision Date19-January-2018Print Date19-January-2018

Revision SummaryThis document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

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