

# SAFETY DATA SHEET

Creation Date 14-Aug-2009 Revision Date 26-May-2017 Revision Number 2

 1. Identification

Product Name Calcium chloride

Cat No. :

AC349610000; AC349610025; AC349610100; AC349610250; AC349615000

Synonyms

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Dowflake; Calpus; Caltac

#### **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)

Serious Eye Damage/Eye Irritation Combustible dust

Category 2 Yes

#### Label Elements

Signal Word Warning

#### Hazard Statements

May form combustible dust concentrations in air Causes serious eye irritation



**Precautionary Statements** 

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Inhalation

Call a POISON CENTER or doctor/physician if you feel unwell

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Storage

Store in a well-ventilated place. Keep container tightly closed

#### Store locked up

#### 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 chloride		10043-52-4	>95		
	4.	First-aid measures			
Eye Contact	Rinse immed Obtain medic	liately with plenty of water, also under the	e eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.				
Ingestion	Do not induce vomiting. Obtain medical attention.				
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically				
	5. Fi	re-fighting measures			
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.				
Unsuitable Extinguishing Media	No information available				
Flash Point Method -	No information available 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**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

#### Hazardous Combustion Products

Hydrogen chloride gas Chlorine

Upper

Lower

Vapor Pressure

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						
Health 2	Flammability 0	Instability 1	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information.					
Methods for Containment and Clea Up	an Sweep up or vacuum up s formation.	pillage and collect in suitable cor	ntainer for disposal. Avoid dust			
	7. Handling	and storage				
Handling		equipment. Ensure adequate ver ingestion and inhalation. Avoid o				
Storage	Keep containers tightly clo	sed in a dry, cool and well-ventil	ated place.			
8. E	xposure controls	/ personal protectic	n			
Exposure Guidelines						
Engineering Measures		ons and safety showers are closen, especially in confined areas.	e to the workstation location.			
Personal Protective Equipment						
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.					
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.					
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.					
(	9. Physical and ch	emical properties				
Physical State		Solid				
Appearance Odor		Beige Odorless				
Odor Threshold		No information available				
pH		8-10 100 g/L aq.sol				
Melting Point/Range		782 °C / 1439.6 °F				
Boiling Point/Range		> 1600 °C / > 2912 °F @ 70	60 mmHg			
Flash Point Evaporation Rate		No information available Not applicable				
Flammability (solid,gas)		No information available				
Flammability or explosive limits						
Upper	No data available					

No data available No data available No information available Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight

Not applicable No information available Soluble in water No data available

No information available Not applicable Ca Cl2 110.99

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Stable under recommended storage conditions. Hygroscopic.				
Conditions to Avoid	Incompatible products. Exposure to moist air or water. Excess heat. Avoid dust formation.				
Incompatible Materials	Strong oxidizing agents, Metals				
Hazardous Decomposition Products Hydrogen chloride gas, Chlorine					
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				

## 11. Toxicological information

### Acute Toxicity

### Product Information

Component Informa	ation							
Componer		LD50 Oral LD50 Dermal LC50 Inh						
Calcium chlor	ride	2301 mg/kg (Rat)	LD50 > 5	5000 mg/kg (Rabbit)	No	Not listed		
Toxicologically Syn Products	•		No information available					
Delayed and immed	liate effects	as well as chronic effects	s from short an	d long-term expos	ure			
Irritation		Severe eye irritant						
Sensitization		No information availa	able					
Carcinogenicity		The table below indic	The table below indicates whether each agency has listed any ingredient as a					
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico		
Calcium chloride	10043-52		Not listed Not listed Not listed Not					
Iutagenic Effects		Mutagenic effects ha		experimental animals	i.			
Reproductive Effect	ts	No information availa	No information available.					
Developmental Effe	cts	No information availa	No information available.					
Teratogenicity		No information availa	No information available.					
STOT - single expos STOT - repeated ex		None known 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

Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

#### Ecotoxicity

Component	Freehu	votor Algoo	Freshwater Fish	Microtox	Water Flee
Component Calcium chloride	Freshwater Algae Not listed		Lepomis macrochirus: LC50: 10650 mg/L/96h	Water Flea EC50: 52 mg/L/48h	
Persistence and Degradat	oility	Soluble in w	ater Persistence is unlikely bas	ed on information av	/ailable.
Bioaccumulation/ Accumu	lation	No informati	ion available.		
Mobility		Will likely be	e mobile in the environment due	e to its water solubilit	у.
		13. D	isposal considerati	ons	
Waste Disposal Methods	aste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified 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		Not regulate	ed		
TDG	TDG Not regulated				
ΙΑΤΑ	TA Not regulated				

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Calcium chloride	Х	Х	-	233-140-8	-		Х	Х	Х	Х	Х

15. Regulatory information

Legend: X - Listed

IMDG/IMO

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

Not regulated

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories

Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	izard	Yes No No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
<b>OSHA</b> Occupational Safety and Healt Not applicable	h Administration	
CERCLA Not applicable		
California Proposition 65	This product does not cor	ntain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable	
U.S. Department of Transportation		
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N	
U.S. Department of Homeland Secu This product does not contain any DH		
Other International Regulations		
Mexico - Grade	No information available	
		information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@ther	mofisher.com
Creation Date Revision Date Print Date Revision Summary		updated to comply with the US OSHA HazCom 2012 Standard

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

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

# **End of SDS**