

# SAFETY DATA SHEET

Creation Date 14-Aug-2009	Revision Date 19-Jan-2018	<b>Revision Number</b> 3
	1. Identification	
Product Name	Calcium chloride	
Cat No. :	AC349610000; AC349610025; AC34961010 AC349615000	00; AC349610250;
CAS-No Synonyms	10043-52-4 Dowflake; Calpus; Caltac	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the sat	ety data sheet	
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	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

Tel: (201) 796-7100

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	3-52-4	>95		
	4. First-aid me	asures			
Eye Contact	Rinse immediately with plenty of medical attention.	water, also under th	e eyelids, for at least 15 minutes. Get		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention 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 and effects	No information available.				
Notes to Physician	Treat symptomatically				
	5. Fire-fighting m	neasures			
Suitable Extinguishing Media	Substance is nonflammable; use	agent most appropr	iate to extinguish surrounding fire.		
Unsuitable Extinguishing Media	No information available				
Flash Point Method -	No information available No information available				
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available 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

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	Instability	Physical hazards N/A
L	6. Accidental re	·	18/74
Personal Precautions Environmental Precautions	Ensure adequate ventilatio	n. Use personal protective equipmer the environment. See Section 12 fc	
Methods for Containment and Clea Up	<b>n</b> Sweep up or vacuum up sp formation.	pillage and collect in suitable contain	er for disposal. Avoid dust
	7. Handling	and storage	
Handling		equipment. Ensure adequate ventilati ingestion and inhalation. Avoid dust f	
Storage	Keep containers tightly close	sed in a dry, cool and well-ventilated	place.
8. E	xposure controls	/ personal protection	
Exposure Guidelines			
Engineering Measures		ons and safety showers are close to t n, especially in confined areas.	he workstation location.
Personal Protective Equipment			
Eye/face Protection		e eyeglasses or chemical safety gog ection regulations in 29 CFR 1910.13	
Skin and body protection	Wear appropriate protectiv	e gloves and clothing to prevent skin	exposure.
<b>Respiratory Protection</b>	No protective equipment is	needed under normal use condition	S.
Hygiene Measures	Handle in accordance with	good industrial hygiene and safety p	practice.

9.	Physica	land	chemical	pro	perties
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Physical State	Solid
Appearance	Beige
Odor	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 ℃ / > 2912 ℉ @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	

# **Calcium chloride**

Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water Autoignition Temperature **Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

No data available No data available No information available Not applicable No information available Soluble in water No data available No information available Not applicable Ca Cl2 110.99

# Revision Date 19-Jan-2018

# 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 Product	s 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 Componer	Component			LD50 Oral LD50 Dermal			
Calcium chloride		2301 mg/kg ( Rat ) LD50 > 5000 mg/kg ( Rabbit )		LC50 Inhalation Not listed			
Foxicologically Syn Products	U	No information avai					
Delayed and immed	liate effects as	well as chronic effec	ts from short an	d long-term exposi	ure		
rritation		Severe eye irritant					
Sensitization		No information available					
Carcinogenicity		The table below ind	licates whether ea	ich agency has liste	d any ingredient	as a carcinog	
Carcinogenicity Component	CAS-No	The table below ind	licates whether ea	ACGIH	d any ingredient	as a carcinogo Mexico	
	<b>CAS-No</b> 10043-52-4	<u> </u>				-	
Component Calcium chloride		IARC Not listed	NTP Not listed	ACGIH	OSHA Not listed	Mexico	
Component Calcium chloride Autagenic Effects	10043-52-4	IARC Not listed	NTP Not listed have occurred in e	ACGIH Not listed	OSHA Not listed	Mexico	
Component Calcium chloride Autagenic Effects Reproductive Effect	10043-52-4 ts	IARC Not listed Mutagenic effects h	NTP Not listed have occurred in e	ACGIH Not listed	OSHA Not listed	Mexico	
Component	10043-52-4 ts	IARC Not listed Mutagenic effects h No information avai	NTP Not listed have occurred in e ilable.	ACGIH Not listed	OSHA Not listed	Mexico	

Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
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	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Calcium chloride	Not listed	Lepomis macrochirus: LC50: 10650 mg/L/96h	EC50: 52 mg/L/48h			
Persistence and Degradab	ility Soluble in w	ater Persistence is unlikely	based on information av	ailable.		
<b>Bioaccumulation/Accumu</b>	llation No informati	on available.				
Mobility	Will likely be	Will likely be mobile in the environment due to its water solubility.				
	13. D	isposal considera	ations			
Waste Disposal Methods	hazardous w	aste generators must detern vaste. Chemical waste gene ardous waste regulations to	erators must also consu			
	14. 7	Fransport informa	ation			
DOT	Not regulate	d				
TDG	Not regulate	d				
ΙΑΤΑ	Not regulate	d				
IMDG/IMO	Not regulate	d				

### 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

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.

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	See section 2 for more information
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 contain 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 Secure This product does not contain any DH	
Other International Regulations	

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	14-Aug-2009 19-Jan-2018 19-Jan-2018 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

**Mexico - Grade** 

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**