

# SAFETY DATA SHEET

Creation Date 14-Aug-2009

Revision Date 19-Jan-2018

**Revision Number** 3

## 1. Identification

AC297150000; AC297150250; AC297155000

## Calcium chloride

Cat No. :

**Product Name** 

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 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

## **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			
		st aid maggurag				
	4. FIIS	st-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
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 and effects	No information available.					
Notes to Physician	Treat symptomatically					
	5. Fire-f	ighting measures				
Suitable Extinguishing Media	Substance is nonf	lammable; use agent most app	ropriate 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 Sensitivity to Mechanical Impact	No data available t No information ava	ailable				

### Specific Hazards Arising from the Chemical

Sensitivity to Static Discharge No information available

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 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		on. Use personal protective equ to the environment. See Section	
Methods for Containment and Cle Up	an Sweep up or vacuum up s formation.	pillage and collect in suitable co	ontainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		equipment. Ensure adequate ve ingestion and inhalation. Avoid	ntilation. Do not get in eyes, on dust formation.
Storage	Keep containers tightly clo	sed in a dry, cool and well-vent	ilated place.
8. E	Exposure controls	/ personal protection	on
Exposure Guidelines			
Engineering Measures		ons and safety showers are closon, especially in confined areas.	
Personal Protective Equipment			
Eye/face Protection		ve eyeglasses or chemical safet ection regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to prever	it skin exposure.
<b>Respiratory Protection</b>	No protective equipment is	s needed under normal use con	ditions.
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	fety practice.
	9 Physical and ch	emical properties	

9. Physica	al and	chem	ical	propertie	es

Physical State	Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	8-10 100 g/L aq.sol
Melting Point/Range	782 °C / 1439.6 °F
Boiling Point/Range	> 1600 °C / > 2912 °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 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 information available 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 Product	<b>s</b> Hydrogen chloride gas, Chlorine
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

## Acute Toxicity

# Product Information

Commence	ation			D50 Dermal	1.050	Inholotion
Componen		LD50 Oral				Inhalation
Calcium chlor	ide	2301 mg/kg (Rat)	LD50 > 5	i000 mg/kg (Rabbit)	bit ) Not listed	
oxicologically Syn	ergistic	No information ava	ilable		•	
roducts						
elayed and immed	liate effects	as well as chronic effect	cts from short an	d long-term expos	ure	
ritation		Severe eye irritant				
ensitization		No information ava	ilable			
arcinogenicity		The table below inc	dicates whether ea	ch agency has liste	d any ingredient	as a carcinoge
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico
Component Calcium chloride	CAS-N 10043-52	-	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed
		2-4 Not listed	Not listed		Not listed	
Calcium chloride	10043-52	2-4 Not listed	Not listed have occurred in e	Not listed	Not listed	
Calcium chloride Iutagenic Effects	10043-52	2-4 Not listed Mutagenic effects h	Not listed have occurred in e ilable.	Not listed	Not listed	
Calcium chloride Iutagenic Effects Reproductive Effect	10043-52	2-4 Not listed Mutagenic effects h No information ava	Not listed have occurred in e ilable. ilable.	Not listed	Not listed	
Calcium chloride Iutagenic Effects Reproductive Effect Developmental Effe	10043-52 ts cts sure	2-4 Not listed Mutagenic effects h No information ava No information ava	Not listed have occurred in e ilable. ilable.	Not listed	Not listed	

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	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Calcium chloride	Not listed	Lepomis macrochirus: LC50: 10650 mg/L/96h	Not listed	EC50: 52 mg/L/48h
Persistence and Degradat	bility Soluble in wa	ater Persistence is unlikely	based on information ava	ailable.
Bioaccumulation/ Accumu	ulation No information	on available.		
Mobility	Will likely be	mobile in the environment	due to its water solubility	
	13. Di	sposal considera	ations	
Waste Disposal Methods	hazardous w	ste generators must detern aste. Chemical waste gene ardous waste regulations to	erators must also consult	local, regional, and
	14. T	ransport informa	ation	
DOT	Not regulate			

DOT TDG	Not regulated
<u>TDG</u>	Not regulated
IATA_	Not regulated
IMDG/IMO	Not regulated
	15 Regulatory information

## 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

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 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	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 Security

This product does not contain any DHS chemicals.

## Other International Regulations

#### Mexico - Grade

No information available

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