

# **Material Safety Data Sheet**

Creation Date 14-Aug-2009

Revision Date 22-Sep-2009

**Revision Number 1** 

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** 

Cat No.
Synonyms

**Recommended Use** 

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

AC349610000; AC349610025; AC349610250; AC349615000

Dowflake; Calpus; Caltac

Laboratory chemicals

Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410 **Emergency Telephone Number** 

For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-

527-3887

# 2. HAZARDS IDENTIFICATION

WARNING!

**Emergency Overview** 

Irritating to eyes. May cause skin and respiratory tract irritation. Hygroscopic.

Appearance Beige Physical State Solid odor odorless

**Target Organs** 

Eyes, Central nervous system (CNS), Blood

**Potential Health Effects** 

**Acute Effects** 

**Principle Routes of Exposure** 

Eyes Irritating to eyes.

**Skin** May cause irritation. May be harmful in contact with skin.

**Inhalation** May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects Tumorigenic effects have been reported in experimental animals..

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Haz/Non-haz

Ī	Component	CAS-No	Weight %		
	Calcium chloride	10043-52-4	>95		

### 4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

Flash Point No information available.

Method No information available.

Autoignition Temperature No information available.

Explosion Limits
Upper

UpperNo data availableLowerNo data available

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products No information available.

Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.

# Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

### **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 Physical hazards N/A Instability 1

### **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Do not

get in eyes, on skin, or on clothing.

**Environmental Precautions** Should not be released into the environment.

Up

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

### 7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin,

or on clothing. Avoid dust formation. Do not breathe dust.

Keep containers tightly closed in a dry, cool and well-ventilated place. Storage

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location. Ensure

adequate ventilation, especially in confined areas.

**Exposure Guidelines** 

Component Quebec		Mexico OEL (TWA)	Ontario TWAEV		
Calcium chloride			TWA: 5 mg/m <sup>3</sup>		

NIOSH IDLH: Immediately Dangerous to Life or Health

**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 **Respiratory Protection** 

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid **Appearance** Beige odor

odorless No information available. Odor Threshold рΗ 8-10 100 g/L ag.sol. Vapor Pressure No information available.

Vapor Density No information available. Viscosity No information available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range >1600°C / >2912°F@ 760 mmHg

Melting Point/Range782°C / 1439.6°FDecomposition temperatureNo information available.Flash PointNo information available.Evaporation RateNo information available.Specific GravityNo information available.

SolubilitySoluble in waterlog PowNo data available

Molecular Weight110.99Molecular FormulaCa Cl2

# **10. STABILITY AND REACTIVITY**

Stability Hygroscopic.

Conditions to Avoid Avoid Avoid dust formation. Incompatible products. Excess heat.

Exposure to moist air or water.

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**

Component Information

Component information									
	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation					
	Calcium chloride	1000 mg/kg ( Rat )	2630 mg/kg (Rat)	Not listed					

Irritation Irritating to eyes

**Toxicologically Synergistic** 

**Products** 

No information available.

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS

for complete information.

**Endocrine Disruptor Information** No information available

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Calcium chloride	Not listed	ed Lepomis macrochirus: LC50: Not listed		EC50: 52 mg/L/48h
		10650 mg/L/96h		_

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

No information available

No information available

# 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** Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

### 15. REGULATORY INFORMATION

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#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Calcium chloride	X	Х	-	233-140-	-		Х	Х	Х	Х	KE-
				8							04496
											X

#### 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 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

Not applicable

# Clean Air Act

Not applicable

### **OSHA**

Not applicable

#### **CERCLA**

Not Applicable

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Not applicable

### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

D2B Toxic materials



# **16. OTHER INFORMATION**

Prepared By Regulatory Affairs

Thermo Fisher Scientific Tel: (412) 490-8929

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**Revision Summary** "\*\*\*", and red text indicates revision

#### Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**