

# SAFETY DATA SHEET

 Creation Date 24-Nov-2010
 Revision Date 19-Jan-2018
 Revision Number 5

 Image: Instant Stress Stre

AC219090000; AC219090020; AC219090050; AC219095000

Synonyms

Cat No. :

No information available

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

#### **Company**

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)

Category 2
Category 1
Category 1
Category 2
Category 1B
Category 1B
Category 3

## Label Elements

Signal Word Danger

#### **Hazard Statements**

May cause an allergic skin reaction Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation Suspected of causing genetic defects May cause cancer by inhalation May damage fertility



#### Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

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

# Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

## Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

## 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 locked up

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

### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Calcium sulfate	7778-18-9	> 95
Cobalt(II) chloride	7646-79-9	< 2

# 4. First-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. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms and effects	May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Notes to Physician	Treat symptomatically

5. Fire-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**

Do not allow run-off from fire fighting to enter drains or water courses.

### **Hazardous Combustion Products**

Calcium oxides Sulfur 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
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Health 2	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.		
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.		
Methods for Containment and C Up	<b>lean</b> Sweep up or vacuum up sp formation.	illage and collect in suitable c	ontainer for disposal. Avoid dust
	7 Handling	and storage	

 Handling
 7. Handling and storage

 Handling
 Use only under a chemical fume hood. Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash hands before breaks and immediately after handling the product.

Storage

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

# 8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Calcium sulfate	TWA: 10 mg/m <sup>3</sup>	(Vacated) TWA: 15 mg/m <sup>3</sup> (Vacated) TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m³
Cobalt(II) chloride	TWA: 0.02 mg/m <sup>3</sup>			

Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close 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.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

7.11193100	and chemical properties
Physical State	Solid
Appearance	Blue
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1450 °C / 2642 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Ca O4 S
Molecular Weight	136.13
-	

# 10. Stability and reactivity

None known, based on information available		
. Exposure to moist air or water. Avoid dust formation.		
ts, Metals		
Hazardous Decomposition Products Calcium oxides, Sulfur oxides		
ation does not occur.		
ocessing.		

# 11. Toxicological information

# Acute Toxicity

# Product Information

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Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50	Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component Information	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium sulfate	> 3000 mg/kg ( Rat )	Not listed	Not listed
Cobalt(II) chloride	586 mg/kg(Rat)	Not listed	Not listed

Toxicologically Synergistic	No information available		
Products			
Delayed and immediate effects	as well as chronic effects fror	n short and long-term exposure	)

# Irritation

May cause eye, skin, and respiratory tract irritation

## 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 sulfate	7778-18-9	Not listed	Not listed	Not listed	Not listed	Not listed	
Cobalt(II) chloride	7646-79-9	Group 2B	Reasonably	A3	Х	Not listed	
			Anticipated				
IARC: (International	Agency for Rese	earch on Cancer)			Research on Cancer	)	
				arcinogenic to Huma			
				Probably Carcinoger Possibly Carcinogen			
ACGIH: (American	Conference of Go	overnmental Industr		Human Carcinogen			
Hygienists)				cted Human Carcino			
				Carcinogen	<b>J</b> =		
			ACGIH: (A	merican Conference	of Governmental Ind	ustrial Hygienists)	
Mutagenic Effects		Contains a known	or suspected muta	agen			
Reproductive Effects		Product is or conta	ains a chemical wh	ich is a known or s	suspected reproduce	ctive hazard.	
Developmental Effect	e	No information ava	ailahle				
	.5	No information ave					
Teratogenicity		No information ava	ailable.				
STOT - single exposu	ire	Respiratory system	n				
STOT - repeated expo	osure	None known					
Aspiration hazard No information available							
Symptoms / offects k	oth couto and	Symptoms of allor	nic reaction may in	cludo rach itching	wolling trouble	broathing tingling	
Symptoms / effects,k	both acute and	Symptoms of aller	gic reaction may in	iciuue rash, liching	, sweining, trouble	breathing, tingling	

delayed

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

No information available **Endocrine Disruptor Information** 

**Other Adverse Effects** 

The toxicological properties have not been fully investigated.

12. Ecological information

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Calcium sulfate	Not listed	Lepomis macrochirus: LC50: 2.98 mg/L/96H	Not listed	EC50: 3200 mg/L/120H
Cobalt(II) chloride	Not listed	Cyprinus carpio: LC50=0.33 mg/L 96h	Not listed	1.1-1.6 mg/L 48h

Persistence is unlikely Persistence and Degradability

**Bioaccumulation/Accumulation** 

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Calcium sulfate	-0.2
Cobalt(II) chloride	0.85

# 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	UN3077					
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.					
Proper technical name	(COBALT CHLORIDE)					
Hazard Class	9					
Packing Group						
TDG						
UN-No	UN3077					
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.					
Hazard Class	9					
Packing Group						
<u>IATA</u>						
UN-No	UN3077					
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.					
Hazard Class	9					
Packing Group						
IMDG/IMO						
UN-No	UN3077					
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.					
Hazard Class	9					
Packing Group						
	15. Regulatory information					

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Calcium sulfate	Х	Х	-	231-900-3	-		Х	Х	Х	Х	Х
Cobalt(II) chloride	Х	Х	-	231-589-4	-		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
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**SARA 313** 

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Cobalt(II) chloride	7646-79-9	< 2	0.1

SARA 311/312 Hazard Categories See section 2 for more information

#### CWA (Clean Water Act)

Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Cobalt(II) chloride	Х		-

**OSHA** 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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium sulfate	Х	Х	Х	-	-
Cobalt(II) chloride	-	Х	Х	Х	-

## U.S. Department of Transportation

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

## 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 Revision Date Print Date Revision Summary	24-Nov-2010 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

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**