

Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

Sargent Welch

U.S. Department of Labor

Occupational Safety and Health Administration

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SC11199



OMB No. 1218-0074
Expiration Date 05/31/86

Calcium Chloride, Dihydrate

CAS No. 10035-04-8

Section I

Manufacturer's Name

Sargent-Welch Scientific Company

Emergency Telephone Number

312-677-0600

Address (Number, Street, City, State, and ZIP Code).

7300 N. Linder Ave.

Chemical Name and Synonyms

Calcium Chloride, Dihydrate

Trade Name and Synonyms

Skokie, Illinois 60077

Chemical Family

Formula

CaCl₂ · 2H₂O

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

%

TLV (Units)

Alloys and Metallic Coatings

%

TLV (Units)

Pigments

NA

Base Metal

Catalyst

Alloys

Vehicle

Metallic Coatings

Solvents

Filler Metal Plus Coating or Core Flux

Additives

Others

Others

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

NA

Section III - Physical Data

Boiling Point (°F)

Specific Gravity (H₂O=1)

Vapor Pressure (mm Hg.)

Percent Volatile by Volume (%)

0.84

Vapor Density (AIR=1)

NA

Evaporation Rate

NA

Solubility in Water

NA

=1)

NA

42% solution at 20°C

Appearance and Odor

Small white flakes, odorless.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

Non-flammable

Flammable Limits

NA

Lel

Uel

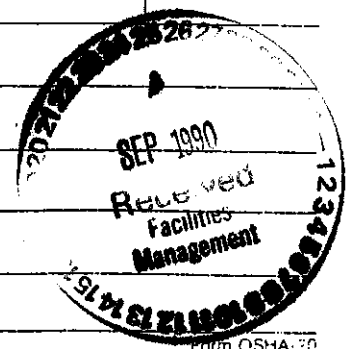
Extinguishing Media

Use extinguishing media appropriate to surrounding fire.

Special Fire Fighting Procedures

Contact with moisture generates a great amount of heat.

Unusual Fire and Explosion Hazards



Section V - Health Hazard Data

Threshold Limit Value

Single dose oral toxicity is low. Oral LD₅₀ (rats) 1090-1668 mg/kg.

Effects of Overexposure

May be harmful if swallowed. May cause irritation to eyes, skin and respiratory system.

Emergency First Aid Procedures

EYES: Flush with flowing water for at least 15 minutes. Seek medical attention. **SKIN:** Wash contact area thoroughly with soap and water. **INHALATION:** Move to fresh air. Seek medical attention. **INGESTION:** If conscious, have patient drink water and induce vomiting. Seek immediate medical attention.

Section VI - Reactivity Data

Stability	Unstable	X	Conditions to Avoid Decomposes at temperatures above 400°F
	Stable		

Incompatibility (Materials to Avoid)

Metals will slowly corrode in aqueous solutions. Product attracts moisture and gives off heat.

Hazardous Decomposition Products

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Gather up spilled chemical and place in a sealed container for disposal in an approved land fill.

Waste Disposal Method

Disposal in accordance with all applicable federal, state and local environmental regulations.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

NIOSH approved respirator

Ventilation	Local Exhaust	Special
	Mechanical (General)	
		Other Emergency eye wash

Protective Gloves	Rubber gloves	Eye Protection	Goggles
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Other Protective Equipment
Laboratory apron or coat

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Store in a tightly closed container in a cool, dry area. When exposed to the atmosphere will absorb water and form a solution. Leather shoes will be damaged by exposure.

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