

Material Safety Data Sheet

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

U.S. Department of Labor

Occupational Safety and Health Administration

SC11202

SC11204

SC11206

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Calcium Chloride, Anhydrous

CAS No. 10043-52-4

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, Anhydrous

Trade Name
and Synonyms

Skokie, Illinois 60077

Chemical
FamilyFormula
CaCl₂

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

Pigments

NA

Catalyst

Vehicle

Solvents

Additives

Others

Alloys and Metallic Coatings

Base Metal

Alloys

Metallic Coatings

Filler Metal
Plus Coating or Core Flux

Others

% TLV (Units)

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

Section III - Physical Data

Boiling Point (°F)

1600°C

Specific Gravity (H₂O=1)

2.15

Vapor Pressure (mm Hg.)

NA

Percent Volatile by Volume (%)

NA

Vapor Density (AIR=1)

NA

Evaporation Rate

=1)

NA

Solubility in Water

42% 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

LeI

UeI

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

Low in toxicity. LD₅₀ (rat): 1.4 g/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		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid) Contact with water generates considerable heat. Sulfuric acid, yields corrosive & irritating hydrogen chloride gas. Methyl vinyl ether, starts runaway polymerization reaction.

Hazardous Decomposition Products

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

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 dust respirator

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves

Rubber gloves

Eye Protection

Emergency eye wash

Goggles

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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