



# CARGO SAFE INTERNATIONAL

## MATERIAL SAFETY DATA SHEET

### Product Properties

**Product Use**

Multi purposes container desiccant

**Trade Name**

Cargo Safe Desiccant, currently available in 1000 Gram – CS 1000 and 2000 Gram – CS 2000

**Active Absorbent**

Calcium Chloride (min 74 %, Food Grade)  
Modified starch with high amylose content  
Maize Starch (Food Grade)

**Packaging Material**

Polyethylene spunbonded paper  
Polypropylene laminate film  
Heigen polypropylene spun bond

### Hazard Identification

Not classified as hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

### Fire Control

**Fighting Media:**

Dry chemical, water spray, or foam. For larger fires, use water spray fog or foam.

**Fire fighting Procedures:**

Nonflammable solids, liquids or gases: Cool containers that are exposed to flames with water from the side until well after fire is out. For massive fire in enclosed area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of the tank due to fire.

### Stability

**Stability:**

Stable

**Materials to avoid**

Sulfuric acid: yields hydrogen chloride gas, which is corrosive, irritating and reactive. Water-reactive materials, such as sodium: cause an exothermic reaction. Methyl vinyl ether: starts runaway polymerization reaction. Zinc as in galvanized iron: yields hydrogen gas with solutions, which may explode under these conditions.

**Hazardous Decomposition or By-Products:**

Oxides of carbon, addition of alkaline compounds may result is ammoniacal compounds.



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### First Aid

#### **First Aid (Inhalation):**

Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

#### **First Aid (Ingestion):**

If large amounts have been ingested, give emetics to cause vomiting. Stomach siphon may be applied as well. Milk and fatty acids should be avoided. Get medical attention immediately.

#### **First Aid (Eyes):**

Wash eyes immediately and carefully for 30 minutes with running water, lifting upper and lower eyelids occasionally. Get prompt medical attention.

#### **First Aid (Skin):**

To avoid repeated or prolonged contact with this chemical, use good hygienic practices. Wash with soap and a large amount of water. Get medical attention if irritation or inflammation develops. There is no evidence that this product poses a carcinogenic risk under normal conditions of handling and use.

### Spill Or Leak And Disposal Procedures

#### **Notify safety personnel of spills or leaks.**

Clean-up personnel need protection against inhalation of dusts or fumes. Eye protection is required. Place in appropriate containers for disposal, keeping airborne particulates at a minimum. Material is slippery when wet.

#### **Disposal:**

Consult applicable local, state, and federal regulations to select the method of disposal. Recover metal components by reprocessing whenever possible.

### Toxicological Information

#### **Respiratory Protection:**

Provide a NIOSH/MSHA jointly approved respirator in the absence of proper environmental control. Contact your safety equipment supplier for proper mask type. IHG for the calcium salt is 10 mg/cu.in.

**Ventilation:** Provide general and/or local exhaust ventilation to keep exposures below the TLV. Ventilation used must be designed to prevent spots of dust accumulation or recycling of dusts.

**Protective Clothing:** Wear protective clothing, including long sleeves and gloves, to prevent repeated or prolonged skin contact. Specific protective clothing is not required unless the contents of the bag are exposed.

**Eye Protection:** Chemical splash goggles designed in compliance with OSHA regulations are recommended. Consult your safety equipment supplier.



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### Storage And Transportation Precautions

Store in a dry, well ventilated place, below 115 F 46 C, away from a heat source. Keep in tightly closed container. Protect container from physical damage. Always reseal container and protective moisture barrier liner after use.

Not regulated, not a dangerous good as defined by the following regulations:

Sea transportation : IMO / IMDG  
Air transportation : ICAO / IATA  
Road, Rail transportation : ADR / RID

### Calcium Chloride Properties

Properties	Calcium Chloride
Physical State	Powder, Colorless, No Odor, Very Hygroscopic
Boiling Point	1600 °C
CAS	010043 – 524
ACGIH/TLV	18 mg / cu.in
Solubility in Water	Freely Soluble
Bulk Density	2.15 gr/cm <sup>3</sup> @ 20 °C
Melting Point	782 °C
% Volatile By Weight @ 1750 deg F	N/A
Density (kg / m3)	Approx 2510
R Steam Density	Very Low
Flash Point ( C )	None
Ph Value	8 – 12 (10 % Solution)

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