



HASA CALCIUM CHLORIDE

Material Safety Data Sheet

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

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HASA CALCIUM CHLORIDE
Material Safety Data Sheet (MSDS No. 211)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Identification:	
1.1.1	Product Name:	HASA CALCIUM CHLORIDE
1.1.2	CAS # :(Chemical Abstracts Service)	10043-52-4
1.1.3	RTECS: (Registry of Toxic Effects of Chemical Substances)	EV9800000
1.1.4	EINECS: (European Inventory of Existing Commercial Substances)	233-140-8
1.1.5	Chemical Name:	Calcium Chloride, anhydrous.
1.1.6	Chemical Formula:	CaCl ₂
1.1.7	Synonym(s):	Calcium dichloride
1.1.8	Chemical Family:	Inorganic calcium salt.
1.2	Recommended Uses:	Calcium chloride is used to increase the hardness in swimming pools.
1.3	Company Identification:	Hasa Inc. 23119 Drayton Street Saugus, California 91350
1.4	Emergency Telephone Number:	CHEMTREC 1-800-424-9300 (24 hour)
1.5	Non-Emergency Assistance:	661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: EMERGENCY OVERVIEW and HAZARD IDENTIFICATION		
2.1	Routes of Exposure:	Calcium Chloride can affect the body if it is ingested or if it comes in contact with the eyes or skin.
2.2	Acute Health Hazards:	
	2.2.1 Eyes:	Contact with the eyes (particularly by dust) causes severe irritation and possible eye burns.
	2.2.2 Inhalation:	Causes irritation of the nose and throat. Inhalation of the dust may cause irritation to the respiratory tract, with symptoms of coughing and shortness of breath.
	2.2.3 Ingestion:	Causes irritation of mouth and stomach. May cause nausea and vomiting.
	2.2.4 Dermal:	Contact of the solid with dry skin causes mild irritation. Severe irritation may be caused by moist skin.
2.3	Medical Conditions to be Aggravated:	Information not available.
2.4	Effects of Overexposure:	Possible superficial burns and transient corneal injury.
2.5	Carcinogenicity Information:	See Section 11.4

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS		
Ingredient	CAS No.	Weight %
Calcium Chloride	10043-52-4	90.5 - 97%

SECTION 4: FIRST AID MEASURES		
4.1	IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
4.2	IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
4.3	IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
4.4	IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES

5.1	Flash Point:	Not applicable.
5.2	Lower Explosive Limit:	Not applicable.
5.3	Upper Explosive Limit:	Not applicable.
5.4	Auto Ignition Temperature:	Not applicable.
5.5	Extinguishing Media:	Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam.
5.6	Special Firefighting Procedures:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Move container(s) from fire area if you can without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Extinguish fire using agent suitable for type of surrounding fire and chemicals. Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind. At high temperatures or when moistened under fire conditions, calcium chloride may produce toxic or irritating fumes.
5.7	Unusual Fire and Explosion Hazards:	Negligible fire hazard when exposed to heat or flame.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Cleanup spills immediately. Vacuum or sweep up material and place into a suitable disposal container and remove container to a safe area. Avoid generating dusty conditions. Wear appropriate protective gear for the situation. See Section 8 for Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1	Handling:	Store in a cool, dry, well-ventilated area away from incompatible substances. Prevent possible eye and skin contact by wearing protective clothing and equipment. Moist calcium chloride and concentrated solutions can corrode steel. When exposed to the atmosphere, calcium chloride will absorb water and form a solution. Always use cool water when dissolving calcium chloride. Heat evolved is significant.
7.2	Storage:	Because of its hygroscopic nature, anhydrous calcium chloride must be kept in tightly-sealed air-tight containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1	Engineering Controls:	Use local exhaust if dusty or misty conditions prevail.
8.2	Personal Protection:	See 29 CFR section 1910.134 and ANSI Z88.2 or European Standard EN 149 for guidance.
	8.2.1 Eyes and Face:	Employees should wear safety goggles or face shield when handling calcium chloride. Eye wash fountain and safety shower should be provided within the immediate work area for emergency use.
	8.2.2 Respiratory:	Avoid breathing dust. Dust mask or dust respirator (NIOSH 95) may be helpful in preventing inhalation exposures. If necessary, use only MSHA- or NIOSH-approved respirators.
	8.2.3 Skin:	Employees should use protective clothing and gloves when handling calcium chloride. Wear appropriate non-leather protective gloves and boots. Leather boots and gloves will dehydrate with resultant shrinkage and possible destruction.
8.3	Work/Hygienic Practices:	Avoid contact with the eyes, skin, and mucous membranes. Wash hands before eating, drinking, or using the restroom. Shower and eyewash facilities should be accessible. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards.
8.4	Exposure Limits:	
	8.4.1 OSHA Guidelines:	Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods.
	8.4.2 OSHA PNOR (Particulates Not Otherwise Regulated):	OSHA (PEL / TWA): <ul style="list-style-type: none"> ▪ 15 mg/m³ (total dust) ▪ 5 mg/m³ (respirable fraction) for aluminum metal as Al.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Physical State and Appearance:	White pellet / flakes.
9.2	Odor:	Odorless.
9.3	Odor Threshold:	Not reported.
9.4	Molecular Weight:	110.98 g/mole (anhydrous)
9.5	Boiling Point:	Not pertinent.
9.6	Melting Point:	187°C (369°F)
9.7	Solubility in Water:	40 g/100 g water @20°C (68°F) with evolution of heat.
9.8	Solubility in Solvents:	Soluble in alcohol, acetic acid and acetone.
9.9	pH: (1% aqueous solution)	9-10
9.10	Specific Gravity:	1.85
9.11	Vapor Density:	Not applicable.
9.12	Vapor Pressure:	Not applicable.
9.13	Evaporation Rate:	Not applicable.
9.14	Coefficient of Oil/Water Distribution:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1	Stability:	Stable.
10.2	Incompatible Materials:	Strong oxidizing agent. Bromine Trifluoride and mixtures of bone acid and lime. 2-Furanpercarboxylic Acid.
10.3	Hazardous Decomposition Products:	Emits toxic chlorine fumes when heated to decomposition. May form hydrogen chloride in presence of sulfuric or phosphoric acids or with water at elevated temperatures. Calcium Oxide.
10.4	Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Health Effects:	Moderately toxic by ingestion. Slightly toxic by thermal absorption.
11.2	Local Effects:	Eyes, mucous membrane, and skin irritant.
11.3	Acute Toxicity (animals):	
	11.3.1 Oral (LD ₅₀)	1000 mg/kg (oral, rat)
	11.3.2 Intraperitoneal (LD ₅₀)	264 mg/kg (intraperitoneal, rat)
	11.3.3 LD_{Lo} (Lowest published lethal dose)	274 mg/kg (subcutaneous, dog)
	11.3.4 TD_{Lo} (Lowest published toxic dose)	112 mg/kg (oral, 20 weeks, rat)
11.4	Carcinogenic Information:	
	11.4.1 NTP (National Toxicological Program 6 th Annual Report on Carcinogens)	Not Listed.
	11.4.2 IARC (International Agency for Research on Cancer Monographs, V. 1-100)	Not Listed.
	11.4.3 OSHA (Occupational Safety & Health Administration)	Not Listed.
	11.4.4 California Prop 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)	Not Listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Aquatic Toxicity:	The LC ₅₀ /96-hour values for fish are over 100 mg/l.
12.2	Avian Toxicity:	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS



Comply with Federal, State, and local regulations when disposing of this material.

SECTION 14: TRANSPORT INFORMATION

14.1	U.S. DOT	Not regulated as a hazardous material.
14.2	Canadian TDG (Transportation of Dangerous Goods)	Not regulated as a dangerous material.
14.3	IATA (International Air Transport Association)	Not regulated as a dangerous material.
14.4	IMO (International Maritime Organization) Dangerous Goods	Not regulated as a dangerous material.

SECTION 15: REGULATORY INFORMATION

15.1	U.S. Regulations:	
15.1.1	OSHA HAZCOM (Hazard Communication):	This material is considered skin & eye irritant by the HAZCOM Standard (29 CFR 1910.1200)
15.1.2	OSHA PSM (Process Safety Management):	Not regulated under PSM Standard (29 CFR 1910.119)
15.1.3	EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act):	Not regulated as a pesticide (40 CFR 152.10)
15.1.4	EPA EPCRA (Emergency Planning and Community Right-to-Know Act):	Section 302 – TPQ: not listed. Section 304 - RQ: not listed. Section 313 – not on TRI list.
15.1.5	EPA SARA (Superfund Amendments and Reauthorization Act) Title III Section 311/312:	Acute: Yes Chronic: No Fire: No Reactive: Yes Sudden Release: No
15.1.6	EPA TSCA (Toxic Substance Control Act):	All components are listed or exempted. TSCA 12(b): This product is not subject to export notification.
15.1.7	EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):	102a/103 Not regulated
15.1.8	EPA RMP (Risk Management Plan):	Not listed. (40 CFR 68.130)
15.1.9	EPA RCRA (Resource Conservation and Recovery Act):	No information.
15.1.10	FHSA (Federal Hazardous Substances Act):	Complies.
15.2	State of California Regulations:	
15.2.1	CDPR (California Department of Pesticide Regulation)	Not regulated.
15.2.2	CalARP (California Accidental Release Prevention Program)	Not listed.
15.3	Canada Regulations:	
15.3.1	WHMIS (Workplace Hazardous Materials Information System) Classification	D2B - Poisonous and infectious material - Other effects - Toxic
15.3.2	WHMIS Health Effects Criteria Met by this Chemical	D2B - Eye irritation - toxic – other
15.3.3	WHMIS Ingredient Disclosure List	Meets criteria for disclosure at 1% or greater.
15.3.4	DSL (Domestic Substances List)	All components of this product are on the DSL.

SECTION 16: OTHER INFORMATION			
16.1	HMIS III (Hazardous Materials Identification System):		
	16.1.1	HEALTH	1
	16.1.2	FLAMMABILITY	0
	16.1.3	PHYSICAL HAZARD	0
	16.1.4	PERSONAL PROTECTION	Section 8
16.2	NFPA 704 (National Fire Protection Association):		
	16.2.1	HEALTH	1
	16.2.2	FLAMMABILITY	0
	16.2.3	INSTABILITY	1
	16.2.4	SPECIAL	None
			
16.3	ANSI (American National Standards Institute):		
	16.3.1	Hazardous Industrial Chemicals - MSDS-Preparation:	Complies with ANSI Z400.1 – 2004.
	16.3.2	Hazardous Industrial Chemicals - Precautionary Labeling:	Complies with ANSI Z129.1 – 2006.
16.4	GHS (Globally Harmonized System):		
	16.4.1	GHS Classification:	Acute Toxicity Oral (Category 4)
	16.4.2	GHS Symbol:	
	16.4.3	GHS Signal Word:	Warning
	16.4.4	GHS Hazard Statement:	Harmful if swallowed.

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