HASA HI-TEMP SPA HARDNESS INCREASER

Safety Data Sheet

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarters: Hasa Inc.
P. O. Box 802736
Santa Clarita, CA 91355
Telephone • 661.259.5848
Fax • 661.259.1538

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
1.1	**Product Identification:**		
	1.1.1	**Product Name:**	HASA HI-TEMP SPA HARDNESS INCREASER
	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 pool and spa water.
1.3	**Company Identification:**		Hasa Inc. P.O. Box 802736 Santa Clarita, CA 91355
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: HAZARD(S) IDENTIFICATION

Hazard Category	Acute Toxicity (Oral): Eye Damage/Irritation:	Category 4 Category 2A
Symbol		
Signal Word	**WARNING**	
Hazard Statements	Harmful if swallowed. Causes serious eye irritation.	
Precautionary Statements	**Prevention**	
	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection.	
	Response	
	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. **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 attention.	
	Disposal	
	Dispose of container/contents in accordance with local, regional, national, international regulations as specified.	

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Weight %
Calcium Chloride	10043-52-4	77% (Assay)

SECTION 4: FIRST AID MEASURES

4.1	**IF IN EYES**	• 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**	• 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**	• 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**	• 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): ▪ 15 mg/m³ (total dust) ▪ 5 mg/m³ (respirable fraction).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
9.1	**Appearance:**	White flakes.
9.2	**Odor:**	Odorless.
9.3	**Odor Threshold:**	Not reported.
9.4	**pH:**	7.0 to 10.5 (at 5 to 38% solution)
9.5	**Melting Point:**	175°C (347°F)
9.6	**Freezing point:**	No information available.
9.7	**Boiling Point & Boiling Range:**	Not pertinent.
9.8	**Flash Point:**	No information available.
9.9	**Evaporation Rate:**	No information available.
9.10	**Flammability (solid, gas):**	Not flammable.
9.11	**Upper / Lower Flammability or Explosive Limits:**	No information available.
9.12	**Vapor Pressure:**	Not applicable
9.13	**Vapor Density:**	Not applicable
9.14	**Relative Density (Specific Gravity):**	55 pounds/cubic foot (approximate)
9.15	**Solubility in Water:**	40 g/100 g water @20°C (68°F) with evolution of heat.
9.16	**Partition Coefficient: (n-octanol / water):**	No information available.
9.17	**Auto-ignition Temperature:**	No information available.
9.18	**Decomposition Temperature:**	No information available.
9.19	**Molecular Weight:**	110.98 g/mole (anhydrous)
9.20	**Viscosity:**	No information available.

SECTION 10: STABILITY AND REACTIVITY		
10.1	**Stability:**	Stable.
10.2	**Reactivity:**	Anhydrous form reacts exothermically with water.
10.3	**Incompatible Materials:**	Strong oxidizing agent. Zinc, Bromine Trifluoride and Methyl vinyl ether.
10.4	**Hazardous Decomposition Products:**	Can only take place at very high temperature producing chlorine gas.
10.5	**Hazardous Polymerization:**	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1	**Health Effects:**		Moderately toxic by ingestion. Slightly irritation by dermal absorption.
11.2	**Local Effects:**		Eyes, mucous membrane, and skin irritant.
11.3	**Acute Toxicity (animals):**		
	11.3.1	**Oral** (LD_{50})	1,000 mg/kg (rat)
	11.3.2	**Dermal** (LD_{50})	2,630 mg/kg (rat)
11.4	**Carcinogenic Information:**		
	11.4.1	**NTP** (National Toxicological Program 6th 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: 10650 mg/l. static (Lepomis macrochirus) The LC_{50} (48-hour) values for water algae: 2400 mg/l (Daphnia magna).
12.2	**Persistence and Degradability:**	Product is not biodegradable.
12.3	**Bioaccumulation:**	Does not bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR §261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR § 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

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: No 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**	**1**
	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 -** SDS-Preparation:	Complies with **ANSI Z400.1 – 2004**.
	16.3.2	**Hazardous Industrial Chemicals -** Precautionary Labeling:	Complies with **ANSI Z129.1 – 2006**.

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