



HASA DRY ACID

Safety Data Sheet

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Safety Data Sheet (SDS No. 207)


Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarters: Hasa Inc.
P. O. Box 802736
Santa Clarita, CA 91355
Telephone • 661.259.5848
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SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Identification:	
1.1.1	Product Name:	HASA DRY ACID
1.1.2	CAS #: (Chemical Abstract Service)	7681-38-1
1.1.3	RTECS : (Registry of Toxic Effects of Chemical Substances)	VZ1860000
1.1.4	EINECS : (European Inventory of Existing Commercial Substances)	231-665-7
1.1.5	Chemical Name:	Sodium bisulfate
1.1.6	Chemical Formula:	NaHSO ₄
1.1.7	Chemical Family:	Inorganic acid salt
1.1.8	Synonym:	Sodium Acid Sulfate, Sodium Hydrogen Sulfate, Sodium Pyrosulfate.
1.2	Recommended Uses:	It is used primarily to lower the pH of water for effective chlorination, including swimming pools and spas.
1.3	Company Identification:	Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355
1.4	Emergency Assistance:	CHEMTREC: 1-800-424-9300 (24 Hour Emergency Telephone)
1.5	Non-Emergency Assistance:	661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Category	Skin corrosion / irritation: Acute Toxicity (oral): Acute Toxicity (inhalation):	Category 1 Category 4 Category 4
Symbol		
Signal Word	DANGER	
Hazard Statements	Causes severe skin burns and eye damage. Harmful if inhaled. Harmful if swallowed.	
Precautionary Statements	Prevention	
	Do not breathe dusts or mists. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.	
	Response	
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.	
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.	
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	Storage	
	Store locked up.	
	Disposal	
	Dispose of container/contents in accordance with local, regional, national, international regulations as specified.	

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

	Ingredient	CAS No.	Approx. Wt.%
3.1	Sodium Bisulfate	7681-38-1	93%
3.2	Sodium Sulfate	7757-82-6	7%

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	Flammability:	Nonflammable.
5.2	Auto-Ignition Temperature:	Not applicable.
5.3	Flash Point:	Not applicable.
5.4	Flammable Limits:	Not applicable.
5.5	Hazardous Decomposition Products:	Decomposition product may include sulfur oxides.
5.6	Fire Hazards:	Not applicable.
5.7	Explosion Hazards:	Not explosive.
5.8	Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire. Water may be used to cool containers and to knock down vapors in a fire situation. Do not use water on material itself or allow water to get inside container.
5.9	Special Remarks:	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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Small Spill:	If possible place in pool or spa water. If not possible, sweep up, place in plastic bag for disposal.
6.2	Large Spill:	Sweep up or vacuum. Place in plastic bag for disposal.

SECTION 7: HANDLING AND STORAGE

7.1	Handling:	Use only with adequate ventilation. Do not breathe dust. Do not get in eyes, on skin or clothing. Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.
7.2	Storage:	Material is hygroscopic and will readily absorb moisture. Store in a cool dry place. Do not store above 49°C/120°F. Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Engineering Controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
8.2	Hygiene Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
8.3	Airborne Exposure Limits: Contains no substances with occupational exposure limit values. All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1 Limits for Air Contaminants. CFR 1910.1000. (http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=standards&p_id=9992)	
8.3.1	OSHA PNOR	15 mg/m ³ total dust, 5 mg/m ³ respirable fraction for nuisance dusts.
8.3.2	ACGIH Threshold Limit Value (TLV)	10 mg/m ³ total dust
8.4	Personal Protection	
8.4.1	Eye Protection	Use chemical safety goggles and/or a full face shield where dusting or splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
8.4.2	Respiratory Protection	In dusty atmospheres (>10 mg/m ³), use a NIOSH-approved dust respirator.
8.4.3	Skin Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
8.4.4	Hand Protection	Rubber gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Dry crystalline solid spherical shape beads.
9.2	Odor:	Fresh to pungent.
9.3	Odor Threshold:	Fresh to pungent.
9.4	pH:	<1 [Conc. (% w/w): 5%]
9.5	Melting Point:	177°C (350.6°F)
9.6	Freezing point:	No information available.
9.7	Boiling Point & Boiling Range:	No information available.
9.8	Flash Point:	
9.9	Evaporation Rate:	Not pertinent.
9.10	Flammability (solid, gas):	No specific fire or explosion hazard.
9.11	Upper / Lower Flammability or Explosive Limits:	No specific fire or explosion hazard.
9.12	Vapor Pressure:	No information available.
9.13	Vapor Density:	No information available.
9.14	Relative Density (Specific Gravity):	1.28 g/cm ³ (83 lb/ft ³)
9.15	Solubility in Water:	Partially soluble: 67g/100g water
9.16	Partition Coefficient: (n-octanol / water):	No information available.
9.17	Auto-ignition Temperature:	No information available.
9.18	Decomposition Temperature:	Decomposes at 177°C (350.6°F)
9.19	Molecular Weight:	120.06 g/mole (anhydrous)
9.20	Viscosity:	No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1	Stability:	Stable under normal use and storage conditions.
10.2	Instability Temperature:	No information available.
10.3	Conditions of Instability:	DO NOT store dry product where exposed to moist conditions.
10.4	Incompatible Materials:	Strong bases, calcium hypochlorite, chlorinated isocyanurates, and sodium carbonate. DO NOT MIX dry or concentrated solutions of chlorine bleach, ammonia cleansers or similar products.
10.5	Corrosivity:	Corrosive to metals.
10.6	Sensitivity to Mechanical Impact:	Not sensitive.
10.7	Sensitivity to Static Discharge:	Not sensitive.
10.8	Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Nose and eyes. Unlikely ingested.
11.2	Acute Oral Toxicity (LD₅₀):	2,800 mg/kg (rat)
11.3	Acute Health Effects:	
	11.3.1 Eyes:	Causes serious eye irritation.
	11.3.2 Inhalation:	Inhalation of dust may irritate nose, throat and/or lungs.
	11.3.3 Ingestion:	Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.
	11.3.4 Skin:	Prolonged exposure may cause skin irritation.
11.4	Chronic Health Effects (Human Risk Assessment):	May cause erosion of teeth.
11.5	Over-exposure signs/symptoms	
	11.5.1 Eyes:	Adverse symptoms may include pain, watering and redness.
	11.5.2 Inhalation:	Adverse symptoms may include respiratory tract irritation and coughing.
	11.5.3 Ingestion:	No specific data.
	11.5.4 Skin:	No specific data.
11.6	Carcinogenic [Cancer Potential] Information:	
	11.6.1 NTP (National Toxicological Program 6 th Annual Report on Carcinogens):	Not Listed.
	11.6.2 IARC (International Agency for Research on Cancer Monographs, V. 1-100):	Not Listed.
	11.6.3 ACGIH (American Conference of Governmental Industrial Hygienists):	Not Listed.
	11.6.4 OSHA (Occupational Safety & Health Administration):	Not Listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Ecotoxicity:	This product readily dissolves in water to form a weak acid solution. A 0.05% or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.
12.2	BOD and COD:	No information available.
12.3	Products of Biodegradation:	No information available.
12.4	Toxicity of the Products of Biodegradation:	No information available.
12.5	Special Remarks on the Products of Biodegradation:	No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.


Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

14.1	US D.O.T.	Not regulated.
14.2	Canada TDG: (Transportation of Dangerous Goods)	Not regulated.
14.3	ICAO: (International Civil Aviation Organization):	Not regulated.
14.4	IMO (International Maritime Organization) IMDG (International Maritime Dangerous Goods) Code:	Not regulated.

SECTION 15: REGULATORY INFORMATION

15.1	U.S. Regulations:	
15.1.1	OSHA HAZCOM (Hazard Communication)	This material is considered IRRITANT under 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 under FIFRA standard.
15.1.4	EPA TSCA (Toxic Substance Control Act)	All components are listed or exempted. TSCA 12(b): This product is not subject to export notification.
15.1.5	EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	Not regulated.
15.1.6	EPA SARA (Superfund Amendments and Reauthorization Act) Title III: Section 311/312	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No
15.1.7	EPA RMP (Risk Management Plan)	Not regulated. (40 CFR 68.130)
15.2	State of California Regulations:	
15.2.1	Prop 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)	Not listed.
15.2.2	CDPR (California Department of Pesticide Regulation)	Registration No: 10897-50010-AA
15.2.3	CalARP (California Accidental Release Prevention Program)	Not regulated.
15.3	Canada Regulations	
15.3.1	WHMIS (Workplace Hazardous Materials Information System)	No results for this product search in WHMIS Classifications.
15.3.2	DSL (Domestic Substances List)	All components of this product are on the DSL.
15.4	DSCL (EEC):	
15.4.1	Risk Phrase:	R34 (causes burns) R41 (risk of serious eye damage);
15.4.2	Safety Phrases:	S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves, and eye/face protection.
15.5	International Inventory:	
15.5.1	AICS (Australian Inventory of Chemical Substances)	On inventory or in compliance with inventory.
15.5.2	KECI (Korean Existing Chemicals Inventory)	On inventory or in compliance with inventory.
15.5.3	PICCS (Philippine Inventory of Chemicals and Chemical Substances)	On inventory or in compliance with inventory.
15.5.4	IECSC (Inventory of Existing Chemical Substances in China)	On inventory or in compliance with inventory.
15.5.5	NZIoC (New Zealand Inventory of Chemicals)	On inventory or in compliance with inventory.

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	REACTIVITY	0
16.2.4	SPECIAL	
		
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	International Fire Code / International Building Code [1997 edition]:	Irritant.

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