



HASA DRY ACID

Material Safety Data Sheet

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HASA DRY ACID
Material Safety Data Sheet MSDS No.207

IDENTIFICATION OF PRODUCT

Product Name:	HASA DRY ACID
Common Chemical Names:	Sodium Bisulfate, Sodium Acid Sulfate, Nitre Cake
Chemical Names of Ingredients [>1.0% by weight]:	Sodium Hydrogen Sulfate, Sodium Bisulfate
Chemical Family:	Inorganic acid salt
CAS Registry Number:	7681-38-1
Empirical Formula:	NaHSO ₄

PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not Applicable.	Flash Point:	Not Applicable.
Weight/Gallon:	Not Applicable.	pH:	Not Applicable.
Density [liquid]:	Not Applicable.	Odor:	None.
Bulk Density:	83 lbs/cubic foot	Boiling Point:	Not Applicable.
Melting Point:	350°F	Freezing Point:	Not Applicable.
Physical State:	Solid granules	Color:	Off-white
Solubility in Water:	100%	Stability:	Stable

PHYSICAL HAZARDS

Potential for Fire:	Nonflammable.
Potential for Explosion:	None. At temperatures above 570°F, hazardous fumes of sulfur dioxide and sulfur trioxide are evolved.
Reactivity:	Will react with caustic materials in water solution. Forms dilute sulfuric acid with water.
Extinguishing Media:	Non-flammable.
Fire Fighting Procedures:	Water, capture, runoff.

HEALTH HAZARDS	
Signs and Symptoms of Exposure:	Eye and skin irritation.
Medical Conditions Aggravated by Exposure:	No data available.
Oral [ingestion] LD₅₀:	2800 mg/kg
Dermal [skin absorption] LD₅₀:	No data available.
Inhalation [breathing] LC₅₀:	No data available.
Eye Irritation:	No information available.
Skin Irritation:	Mean primary irritation score = 1.66
OSHA PEL:	None Established.
ACGIH TLV/TWA:	None Established.

POTENTIAL ROUTE [S] OF ENTRY	
Inhalation [Breathing]:	Dust from product, irritant.
Dermal [Skin]:	Dust from product, irritant.
Eyes:	Dust from product, irritant.
Ingestion:	Not anticipated.

CARCINOGENIC [CANCER POTENTIAL] INFORMATION	
National Toxicological Program [NTP] <i>Sixth Annual Report on Carcinogens</i>:	Not listed.
International Agency for Research on Cancer [IARC] <i>Monographs, V. 1-53, Supps. 1-8</i>:	Not listed.
Listed by Federal OSHA as Carcinogens:	Not listed.
Safe Drinking Water and Toxic Enforcement Act of 1986 [Proposition 65, California only]:	Not listed.

GENERAL PRECAUTIONS FOR SAFE USE AND HANDLING
Store in cool, dry place. Do not mix with alkaline materials. Add this product only to swimming pool, spa, hot tub, or therapeutic waters in accordance with label directions. Mixing with water will form sulfuric acid solution.

PERSONAL PROTECTION AND HYGIENE
Wear rubber gloves and eye protection when handling. Wash hands after handling. Self-contained breathing apparatus required where temperature of material exceeds 570°F.

CLEAN-UP OF SPILLS
Sweep up spilled material and place in a sanitary sewer. Material which cannot be swept up should be dissolved with water, neutralized with soda ash, sodium sesquicarbonate, or sodium bicarbonate, and flushed to a sanitary sewer.

FIRST AID	
Eye Contact:	Flush with water. Remove contact lenses [if applicable]. Hold eyelids open. Continue flushing with water for 15 minutes. Get prompt medical attention.
Skin Contact:	Brush off any residue. Wash affected area with water for 15 minutes. If irritation persists, get medical attention.
Ingestion [swallowing]:	Drink large quantities of water. DO NOT induce vomiting. Follow with Milk of Magnesia, vegetable oil, or beaten egg. Call a physician or poison control center immediately.
Inhalation:	<i>Dust</i> -Get medical attention if irritation persists. <i>Fumes</i> -Move to a safe area. If not breathing give artificial respiration. Call a physician immediately. Get medical attention for irritation, ingestion, or discomfort from inhalation.

FEDERAL/STATE LISTS/REGISTRATION/S/REPORTING REQUIREMENTS	
CERCLA Hazardous Substance [Section 1010 [4], P.L. 96-510]:	Not listed.
Extremely Hazardous Substance [40 CFR 355, Appendix A]:	Not listed.
Pesticide Product 7 U.S.C. 136 et seq.:	Not registered.
Toxic Substance under TSCA:	Not reported.
Pesticide Product [various State Laws]:	Not registered.

MATERIAL CLASSIFICATION	
OSHA Hazard Communication Standard, Department of Labor, Occupational Safety and Health Division, 29 CFR 1910.1200:	Irritant
Hazardous Materials Transportation Regulations, Department of Transportation (Federal) 49 CFR 172.101:	Not listed.
National Fire Protection Association NFPA 704 [1990]:	1-0-1
NFPA 49:	Irritant
BOCA National Fire Prevention Code/National Building Code [1999 editions]:	Irritant
Standard Fire Prevention Code/Standard Building Code [1997 editions]:	Irritant
Uniform Fire Code/Uniform Building Code [1997 editions]:	Irritant
Uniform Fire Code Standards 79-3, Uniform Fire Code, V. II [1997 edition]:	1-0-1

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