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Material Safety Data Sheet

Glauber Salt

1. Product Identification

Trade Names: Sodium Sulfate
 Synonyms: Sodium Sulfate, Disodium Sulfate
 CAS No.: 7757-82-6 (Anhydrous)
 Molecular Weight: 322.20
 Chemical Formula: Na₂SO₄·10H₂O

Emergency Telephone Numbers:
 800-255-3924 ChemTel. (United States)
 + 1 01 813-248-0585 (Outside the United States)

* * * * * *Effective Date: 09/17/2012* * * * * * *Supersedes: 9/17/2010*

2. Compositional Information on Ingredients

Ingredient	CAS No.	Percent	PEL/TWA	Ceiling	TLV/TWA	TLV/STEL
Sodium Sulfate	7757-82-6	99.9-100%	5mg/m ³	None	10 mg/m ³	None

3. Hazards Identification

Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

SAF-T-DATA(tm) Ratings (provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 1 - Slight

Skin Contact	May cause irritation
Skin Absorption	Not readily absorbed through the skin
Eye Contact	May cause irritation
Ingestion	May be absorbed by the digestive system and can result in both acute and chronic overexposure
Inhalation	May be absorbed by the respiratory system and can result in both acute and chronic overexposure as well as respiratory irritation

Effects of Overexposure

Acute	Product may cause irritation to the eyes, skin and/or upper respiratory tract. Ingestion of the product may cause gastrointestinal upset.
Chronic	No Long term chronic effects reported.

Signs and Symptoms of Exposure Irritation and effects of overexposure as described above.

Aggravated Medical Conditions Atopic or eczematous skin may be aggravated by exposure to this product.

Notes to Physician Luminal contents of intestinal tract remain essentially isosmotic therefore ingestion can produce purging and significant dehydration. Low blood pressure and high sodium levels in the blood may also result. For combustion product effects see Hazardous Combustion Products in Section 5. Fire Fighting Measures.

4. First Aid Measures

Eyes	Flush with copious amounts of water. Get immediate medical attention.
Skin	Wash thoroughly with soap and water. If irritation occurs, get medical attention.
Ingestion	Get immediate medical attention. If conscious, promptly give large amounts of water.
Inhalation	Remove from exposure. Get medical attention if experiencing effects of overexposure

5. Fire Fighting Measures

Flash Point	Not Applicable	Test Method	Not Applicable
Flammable Limits in Air (% by volume, estimated)	Lower: Not Applicable	Upper:	Not applicable
Auto-ignition Temperature	Not Applicable		
Hazardous Combustion Products	High temperatures may produce toxic fumes of sulfur oxides and sodium monoxide. These fumes are corrosive and highly irritating. Combustion products may cause effects of overexposure as noted in Section 3. Hazards Identification. Other unidentified health effects may occur.		
Conditions Contributing to Flammability	Not Applicable		
Extinguishing Media	Use water fog, dry chemical, or carbon dioxide for surrounding fire. Use water spray to keep fire-exposed containers cool.		
Special Fire Fighting Procedures	Use full-body protection and full-face, self contained breathing apparatus operated in a positive-pressure mode.		
Unusual Fire and Explosion Hazards	In fire conditions thermal decomposition may occur producing toxic fumes.		
Sensitivity to Impact	Not Applicable	Sensitivity to Static Discharge	Not Applicable

6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled Dust material should be vacuumed or carefully swept. Particulate matter should be stored in dry containers for later disposal or reclamation. Do not use compressed air as a means of cleaning. Assure conformity with applicable governmental regulations.

7. Handling and Storage

The two major means of absorption are inhalation and ingestion. Most inhalation problems can be prevented with adequate use of Section 8 ventilation and respirator information. Wash hands, face, neck and arms thoroughly with soap and water before eating, drinking or smoking. Smoking, eating and drinking should be confined to uncontaminated areas. Avoid skin contact. Work clothes and

equipment should remain in designated contaminated areas. Before reuse, launder contaminated clothing separate from personal clothing.

This product is intended for industrial use only. Isolate from children and their environment.

Store in a dry area.

Adhere to all personal protection equipment procedures when handling, and ventilation requirements when exposures are above permissible exposure limits or threshold limit values.

8. Exposure Controls/Personal Protection

Ventilation Requirements Use adequate general or local exhaust ventilation to keep dust levels as low as possible.

Specific Personal Protection Equipment

RESPIRATORY For conditions where exposure is apparent a dust/mist respirator is recommended. Local and state regulations may apply.

EYE Safety glasses with side shields or safety goggles should be worn.

GLOVE Gloves should be worn when handling this product.

OTHER CLOTHING AND EQUIPMENT Coveralls or other full body clothing shall be worn during product use and properly laundered after use, with the wash water disposed of in accordance with local, state and federal regulations. Hard hat, safety boots and other safety equipment should be worn as appropriate for the industrial environment. Personal clothing and shoes should be protected from contamination with this products.

9. Physical and Chemical Properties

BOILING POINT @760 mm Hg	Not Applicable	MELTING POINT	1630F (888C) Approx.
SPECIFIC GRAVITY (H ₂ O = 1)	2.7	VAPOR PRESSURE (Reference Temperature)	Not Applicable
VAPOR DENSITY (Air=1)	Not Applicable	SOLUBILITY IN H₂O (% by wt.)	50% @ 91F (33C)
%VOLATILE BY VOLUME	Not Applicable	EVAPORATION RATE (Butyl Acetate = 1)	Not Applicable
COEFF. WATER/OIL DISTRIBUTION	Not Applicable	pH	6 - 9.5 (aqueous solution)
FREEZING POINT	Not Applicable	ODOR THRESHOLD	Not Applicable
APPEARANCE AND ODOR	White powder; no apparent odor		

10. Stability and Reactivity

Conditions Contributing to Instability Not Applicable **Reactivity** Not Applicable
Incompatibility Sodium sulfate mixed with aluminum at high temperatures, 1472F (800C), reacts explosively
Hazardous Decomposition Products Under normal temperatures this product will not decompose
Conditions Contributing to Hazardous Polymerization Not Applicable

11. Toxicological Information

Toxicity, Mutagenic, Teratogenic, Synergistic and Sensitization Sodium sulfate has an oral LD (50 mouse) of 5,909 mg/kg. Other LD50 and LC50 information is not available. Tests on laboratory animals indicate possible adverse reproductive effects.

Carcinogenicity

None of the product ingredients are carcinogenic according to the OSHA Hazard Communication Standard.

12. Ecological Information

Not Available

13. Disposal Considerations

Waste Disposal Method

Dispose or recycle toxic substances and hazardous wastes in accordance with local, state and federal regulations.

14. Transport Information

U.S. Department of Transportation No special requirements under normal circumstances.

15. Regulatory Information

Toxic Chemical Release Reporting, EPA Regulation 40 C.F.R. #372 (SARA Section 313)
Reportable chemicals in product: none

Toxic Substances Control Act (TSCA), EPA Regulation 40 C.F.R. #710

The chemical ingredients in this product are in the Section 8(b) Chemical Substance Inventory (40 C.F.R. #710) and/or are otherwise in compliance with TSCA.

Disclaimer: *****

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