



Gypsum

Date of Preparation: 5/19/99; Revised: 7/17/09

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Gypsum (Calcium Sulfate Dihydrate)

Chemical Formula: $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

CAS Number: 10101-41-4

Other Designations:

General Use:

Manufacturer: Nyrstar Clarksville Inc.

Zinc Plant Rd

P.O. Box 1104

Clarksville, TN 37041-1104

Contact: Technical Services (931) 552-4200

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol	Permissible Air Conc.
Calcium Sulfate Dihydrate	10101-41-4	99	Non Hazardous Gypsum is listed in Appendix D of the ACGIH.7LV booklet as a Nuisance Particle with a TWA of 10 mg/m ³ ACGIH

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Acute Effects:

Inhalation: Possible dust nuisance under very dry conditions.

Eye: Possible dust nuisance.

Skin: No effect from gypsum or components as related to skin absorption.

Ingestion: Various components may express toxicity in isolated form, however, these would occur in such miniscule amounts of the gypsum as to render ingestion of the product non-toxic.

Medical Conditions Possibly Aggravated: Dusty conditions may aggravate respiratory problems.

Chronic Effects: None

Section 4 - First Aid Measures

None indicated relative to toxicity, however, First Aid to exposures above the nuisance dust particles TWA may be applicable.

Section 5 - Fire-Fighting Measures

Flash Point: Non-combustible

Flash Point Method: NA

Burning Rate: NA

Autoignition Temperature: NA

LEL: NA

UEL: NA

Flammability Classification: NA
Extinguishing Media: Non-combustible
Unusual Fire or Explosion Hazards: Gypsum is non-combustible, however, if associated with other combustibles during a fire, extinguishment should concentrate on those agents.
Hazardous Combustion Products: NA
Fire-Fighting Equipment: Self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Sweep up.
Small Spills: NA
Large Spills: NA
Containment: NA
Cleanup: NA
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: NA
Storage Requirements: Outside storage may be prohibited relative to certain environmental considerations.
Regulatory Requirements: NA

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Mechanical ventilation for dry dust particles
Eye and Face: Eyes can be protected from very dusty conditions by the use of safety goggles.
Respiratory Protection: Dust mask may be worn under very dry dusty conditions. ACGIH TLV booklet gives 10 mg/m³ of total dust as an 8 hr. TWA or 5 mg/m³ for the respirable fraction.
Protective Clothing/Equipment: Protective clothing not required.
Personal Hygiene: Good industrial hygiene practices always recommended.

Section 9 - Physical and Chemical Properties

Physical State: Solid	Water Solubility: 0.2 g/100ml
Appearance and Odor: White crystals, odorless	Other Solubilities: NA
Vapor Pressure: NA	Boiling Point: NA
Vapor Density (Air=1): NA	Freezing/Melting Point: NA
Formula Weight: NA	Viscosity: NA
Density: NA	Refractive Index: NA
Specific Gravity (H₂O=1, at 4 °C): 2.32	Surface Tension: NA
pH: Neutral in solution	% Volatile: NA
	Evaporation Rate: NA

Section 10 - Stability and Reactivity

Stability: Stable
Polymerization: Hazardous polymerization will not occur.
Chemical Incompatibilities: NA
Conditions to Avoid: NA
Hazardous Decomposition Products: NA

Section 11- Toxicological Information

Eye Effects: NA	Toxicity Data:
Skin Effects: NA	Acute Inhalation Effects: Human, inhalation, TC _{LO} : NA ppm
	Acute Oral Effects: Rat, oral, LD ₅₀ : NA mg/kg
	Chronic Effects: NA Carcinogenicity: NA
	Mutagenicity: NA Teratogenicity: NA

Section 12 - Ecological Information

Ecotoxicity: Not EPA hazardous.

Section 13 - Disposal Considerations

Disposal: Disposer must comply with federal, state, and local disposal or discharge laws

RCRA status of Unused Material: Management of material must comply with federal, state, and local laws.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Gypsum

Shipping Symbols:

Hazard Class: not DOT
hazardous

ID No.:

Packing Group:

Label:

Special Provisions (172.102):

Packaging Authorizations

a) Exceptions:

b) Non-bulk Packaging:

c) Bulk Packaging:

Quantity Limitations

a) Passenger, Aircraft, or Railcar:

b) Cargo Aircraft Only:

Vessel Stowage Requirements

a) Vessel Stowage:

b) Other:

Section 15 - Regulatory Information

EPA Regulations:

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4);
CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), NA lb (NA kg)

SARA 311/312 Codes: NA

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29CFR 1910.NA)

State Regulations: NA

Section 16 – Other Information

Permissible Concentration References

ACGIH Threshold Limit Values

Hazard Information References

40 CFR Part 261

General

This material is a by-product of a reclamation system and is subject to use as a feedstock for a commercial product or disposal as a non-hazardous material.

NA = Not applicable or not available.

Prepared by: Technical Services Staff

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