Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 11/26/2024 Revised on 11/26/2024

1 Identification

· ***Product Identifier***

· ***Trade Name: SO4 (Mini Grade)***
· ***Relevant identified uses of the substance or mixture and uses advised against:***
· ***Product Description:*** Calcium sulfate dihydrate, gypsum

· ***Details of the Supplier of the Safety Data Sheet:***
· ***Manufacturer/Supplier:***
Calcium Products
2520 N. Loop Dr. Suite 7100
Ames, IA 50010
P: 800-255-8196 (M-F, 7:30 am-4:43pm CST)
· ***Emergency telephone number:*** (800) 222-1222 (24 hours)

2 Hazard(s) Identification

· ***Classification of the substance or mixture:***



Eye irritation 2A H319 Causes serious eye irritation.

· ***Label elements:***
· ***Hazard pictograms:***



· ***Signal word:*** Warning
· ***Hazard statements:***
H319 Causes serious eye irritation.
· ***Precautionary statements:***

P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

· ***Unknown acute toxicity:***
This value refers to knowledge of known, established toxicological or ecotoxicological values.
2 % of the mixture consists of component(s) of unknown toxicity.
· ***Information pertaining to particular dangers for man and environment:***
· ***Classification system:*** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
· ***NFPA ratings (scale 0 - 4)***



Health = 2
Fire = 0
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***



Health = 2
Fire = 0
Physical Hazard = 0

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· ***Hazard(s) not otherwise classified (HNOC):*** None known
· ***Classification according to (d)(1)(ii) of § 1910.12000***
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
· ***Hazards not otherwise classified***
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/Information on Ingredients

· ***Chemical characterization: Substance***
· ***Description:***
Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

· ***Dangerous Components:***

10101-41-4	Calcium Sulfate dihydrate	Eye irritation 2A, H319	85-95%

· ***Additional information:***
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· ***Description of first aid measures***
· ***General information:*** If symptoms persist, call a physician.
· ***After inhalation:***
If a person inhales a large amount of nuisance dust, move exposed person to fresh air at once. Other measures are usually unnecessary.
· ***After skin contact:***
In case of skin contact, immediately rinse area with water. Cover irritated are with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if irritation persists.
· ***After eye contact:***
In case of contact, immediately flush eyes with water for a minimum of 15 minutes. Warm water is recommended but cold water may be used.
· ***After swallowing:***
Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention of contact poison control center immediately.
· ***Most important symptoms and effects, both acute and delayed:*** No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed:*** Treat symptomatically.

5 Fire-Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** Use fire fighting measures that suit the environment.
· ***For safety reasons unsuitable extinguishing agents:*** No further relevant information.
· ***Special hazards arising from the substance or mixture:*** No further relevant information available.
· ***Advice for firefighters***
· ***Special protective equipment for firefighters:***
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

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6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures:*** Not required.
· ***Environmental precautions:*** No special measures required.
· ***Methods and material for containment and cleaning up:***
Dispose of the collected material according to regulations.
Use dry methods to collect spilled materials, and reuse clean materials. Avoid generating dust. Do not clean up with compressed air. Minimize dust by evacuating area downwind in the case of large spills. Store contaminated materials in dry, sealed plastic or non-aluminum metal containers. Residues on surfaces may be washed with water.

· ***PAC-1:***
None of the ingredients are listed.

· ***PAC-2:***
None of the ingredients are listed.

· ***PAC-3:***
None of the ingredients are listed.

· ***Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

· ***Precautions for safe handling:***
Ensure proper ventilation, and respiratory and eye protection are used under dusty conditions. Dew point conditions or other conditions causing presence of moisture will harden gypsum during storage. Excessive particulate concentrations in workplace must be avoided even though it is inert and non-toxic.
· ***Information about protection against explosions and fires:*** No special measures required.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and receptacles:***
Store in a cool, dry, well-ventilated location. Do not store near acids or other incompatible materials. Keep away from moisture.
· ***Information about storage in one common storage facility:*** Not required.
· ***Further information about storage conditions:*** None.
· ***Specific end use(s):*** No further relevant information available.

8 Exposure Controls/Personal Protection

· ***Control parameters:***

· ***Components with occupational exposure limits:***	
10101-41-4 Calcium Sulfate dihydrate	
TLV	Long-term value: 10* mg/m³ *as inhalable fraction

· ***Additional information:*** The lists that were valid during the creation of this SDS were used as basis.

· ***Exposure controls:***
· ***Appropriate engineering controls*** No further data; see section 7.

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· **Personal protective equipment**
· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
· **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Not applicable.
· **Penetration time of glove material:** Not applicable.
· **Eye protection:**



Safety glasses

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**

· **Physical state**	Solid
· **Color:**	Brown
· **Odor:**	Slight
· **Odor threshold:**	Not determined.
· **Melting point/Melting range:**	Not determined.
· **Boiling point/Boiling range:**	Not determined.
· **Flammability:**	Not determined.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	None
· **Auto igniting:**	Not applicable
· **Decomposition temperature:**	Not determined.
· **pH-value @ 20 °C (68 °F):**	6.72
· **Viscosity:**	
· **Kinematic:**	Not applicable.
· **Dynamic:**	Not applicable.
· **Solubility in / Miscibility with:**	
· **Water:**	Negligible
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Vapor pressure:**	Not applicable.
· **Vapor pressure:**	
· **Density @ 20 °C (68 °F):**	2.6-2.75 g/cc
· **Relative density:**	Not determined.
· **Vapor density:**	Not applicable.

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· **Particle characteristics**	Not determined.
· **Other information:**	
· **Appearance:**	
· **Form:**	Crystalline
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not self-igniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **VOC content:**	0.00 %
· **Change in condition**	
· **Evaporation rate:**	Not applicable.

10 Stability and Reactivity

· **Reactivity:** No further relevant information available.
· **Chemical stability:** Product is stable under normal conditions.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:** No dangerous reactions known.
· **Conditions to avoid:** Items listed under Incompatibility.
· **Incompatible materials:** Aluminum (at high temperatures), diazomethane
· **Hazardous decomposition products:**
When heated to high temperatures above 825°C, gypsum may emit toxic fumes of oxides of sulfur and calcium.

11 Toxicological Information

· **Information on toxicological effects:**
· **Acute toxicity:**
· **LD/LC50 values that are relevant for classification:** No data available.
· **Primary irritant effect:**
· **On the skin:** No irritating effect.
· **On the eye:** Irritating effect.
· **Additional toxicological information:**
· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**
None of the ingredients are listed.

· **NTP (National Toxicology Program):**
None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**
None of the ingredients are listed.

· **Alternative sources for toxicological information**
No non-standard sources for toxicological information where used.

12 Ecological Information

· **Toxicity:**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability:** No further relevant information available.

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· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.
· **Results of PBT and vPvB assessment:**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects:**
· **Additional ecological information:**
· **General notes:** Generally not hazardous for water.

13 Disposal Considerations

· **Waste treatment methods**
· **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

· **UN-Number:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **UN proper shipping name:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**
· **Class:** Non-Regulated Material
· **Packing group:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **Environmental hazards:** Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
· **Special precautions for user:** Not applicable.
· **UN "Model Regulation":** Non-Regulated Material

* 15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
No further relevant information available.
· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**
None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**
None of the ingredients are listed.

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· **California Proposition 65:**

· **Chemicals known to cause cancer:**
None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients are listed.

· **New Jersey Right-to-Know List:**
None of the ingredients are listed.

· **New Jersey Special Hazardous Substance List:**
None of the ingredients are listed.

· **Pennsylvania Right-to-Know List:**
None of the ingredients are listed.

· **Pennsylvania Special Hazardous Substance List:**
None of the ingredients are listed.

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**
None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**
None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**
None of the ingredients are listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



· **Signal word:** Warning

· **Hazard statements:**
H319 Causes serious eye irritation.

· **Precautionary statements:**

P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

· **National regulations:**
The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

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· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***Date of previous version*** 09/08/2024
· ***Version number of previous version:*** 2
· ***Date of preparation*** 11/26/2024
· ***Abbreviations and acronyms:***
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
· **** Data compared to the previous version altered.***
SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106