

1. Product and Company Identification

Product Name:	Mineraluxe pH-
CAS #:	7681-38-1
GHS Product Identifier:	Sodium bisulfate, anhydrous, technical grade
Other means of identification:	Nitre cake, GBS, Sodium hydrogensulphate
Identified Uses:	Cleaning compounds, pH adjustments. Not approved for use in food or animal feed.
Supplier's details	Backyard Brands, Inc. 401 S. Enterprise Blvd., LEBANON, IN 46052, USA • 1-866-875-0012
	24 HR. EMERGENCY TELEPHONE NUMBERS Poison Control Center (Medical): (877) 800 - 5553 CANUTEC (Canadian Transportation): (613) 996 - 6666 CHEMTREC (US Transportation): (800) 424 - 9300 INTERNATIONAL: +1-703-527-3887

2. Hazards Identification

OSHA/HCS Status:	This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the Substance or mixture	Serious eye damage/eye irritation – Category 1
<u>GHS Label elements:</u>	
Hazard pictograms:	
Signal word:	Danger
Hazard Statements:	H318 – Causes serious eye damage.
<u>Precautionary Statements:</u>	
Prevention:	P280 – Wear eye or face protection P264 – Wash hands thoroughly after handling.
Response:	P305 + P351 + P338 + P310 - if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or physician.
Storage:	Not applicable
Disposal:	Not applicable

Hazards not otherwise classified (HNOC)

Physical hazards not otherwise None Known

Classified (PHNOC)

Health hazards not otherwise None Known.

Classified (HHNOC)

3. Composition / Information on Ingredients

Substance/mixture: Substance

Other means of identification: Nitre cake, GBS, Sodium hydrogensulphate

CAS number/other identifiers:

CAS number: Not applicable

Product code: SBSCUN01

Ingredient Name	%	CAS number
Sodium bisulfate	>90	7681-38-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. First Aid Measures

Description of necessary First Aid Measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If redness or irritation persists, get prompt medical attention.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If irritation or discomfort persists, seek medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. If skin irritation occurs, seek medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

Most important symptoms/effect, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye damage

Inhalation: Inhalation of dust may irritate nose, throat and/or lungs

Skin contact: Prolonged exposure may cause skin irritation

Ingestion: Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

- pain
- watering
- redness

Inhalation: Not known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following:

- pain or irritation
- redness
- blistering may occur if repeated exposure

Ingestion: Adverse symptoms may include the following:

- stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (section 11)

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known
Specific hazards arising from the chemical	No specific fire or explosion hazard
Hazardous thermal decomposition products:	Decomposition products may include the following materials: Sulfur oxides
Special protective actions For fire-fighters:	No special measures are required
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and clean-up

Small spill:	Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill:	Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: See Section 1 for emergency contract information and Section 13 for waste disposal

7. Handling and Storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (See Section 8). Avoid breathing dusts. Wash thoroughly after handling.
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage including any incompatibilities:	Material is hygroscopic and will readily absorb moisture. DO NOT store dry product where exposed to moist conditions. Keep container tightly closed.

8. Exposure Controls / Personal Protection

Control parameters

United States

Occupational exposure limits: None

Canada

Occupational exposure limits: None

Mexico: None

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

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.

Eye/face protection: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin protection:

Hand protection: Use gloves appropriate for work or task being performed. Recommended: Rubber gloves.

Body protection: Cotton-blend coveralls.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: In dusty atmospheres ($>10 \text{ mg/m}^3$), use a NIOSH-approved dust respirator.

9. Physical & Chemical Properties

Appearance

Physical state:	Dry (Anhydrous) crystalline solid spherical shape beads.
Colour:	Off-White
Odour:	Fresh to pungent
Odour threshold:	Not available
pH:	<1 (Conc. (% w/w): 5%)
Melting Point:	177 °C
Boiling Point:	Not available
Flash Point:	Not available
Evaporation Rate:	Not available
Flammability (solid, gas):	Not available
Lower & upper explosive (Flammable limits)	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	1.28
Solubility:	Partially soluble in the following materials: cold water & hot water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Volatility:	Not available
VOC (w/w):	0% (w/w)

10. Chemical Stability & Reactivity Information

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	DO NOT store dry product where exposed to moist conditions.
Incompatible materials:	Reactive or incompatible with the following materials oxidizing materials, acids and alkalis. DO NOT MIX dry or concentrated solutions of this product with concentrated solutions of chlorine bleach, ammonia cleansers or similar products.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium bisulfate	LD50 Oral	Rat	2800 mg/kg	-

Irritation/Corrosion: There is no data available

Sensitization: There is no data available

Carcinogenicity: There is no data available

Specific target organ toxicity (single exposure) There is no data available

Specific target organ toxicity (repeated exposure) There is no data available

Aspiration hazard: There is no data available

Information on the likely Routes of exposure Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects.

Eye Contact: Causes serious eye damage

Inhalation: Inhalation of dust may irritate nose, throat and/or lungs

Skin contact: Prolonged exposure may cause skin irritation

Ingestion: Small amounts (tablespoon) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

- Pain
- Watering
- Redness

Inhalation: No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following:

- Pain or irritation
- Redness
- Blistering may occur if repeated exposure

Ingestion: Adverse symptoms may include the following:

- Stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: No known significant effects or critical hazards

Potential delayed effects: No known significant effects or critical hazards

Long term exposure

Potential Immediate effects: No known significant effects or critical hazards

Potential delayed effects: No known significant effects or critical hazards

Potential chronic health effects

General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3080.3 mg/kg

12. Ecological Information

Toxicity:	There is no data available
Persistence & degradability:	There is no data available
Bioaccumulative potential:	There is no data available
Mobility in soil	
Soil/water partition: Coefficient (K_{oc})	There is no data available
Other adverse effects:	This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

13. Disposal Considerations

Disposal methods:	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 dispersal 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.
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14. Transport Information

	DOT	TDG/NOM-003-SCT	IMDG	IATA
UN Number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No	No	No	No
Additional information	-	-	-	-

AERG: Not applicable

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according To Annex II of MARPOL 73/78 And the IBC Code Not available

15. Regulatory Information

U.S. Federal regulations:	United States inventory (TSCA 8b): All components are listed or	exempted
Clean Air Act Section 112: (b) Hazardous Air Pollutants (HAPs)	Not listed	
Clean Air Act Section 602 Class I Substances:	Not Listed	
Clean Air Act Section 602 Class II Substances:	Not listed	
DEA List I Chemicals (Precursor Chemicals):	Not listed	
DEA List II Chemicals (Precursor Chemicals):	Not listed	
<u>SARA 302/304</u>		
Composition/information on ingredients	No products were found	
<u>SARA 304 RQ:</u>	Not applicable	
<u>SARA 311/312</u>		
Classification:	Immediate (acute) health hazard	
<u>Composition/information on ingredients:</u>		
<u>SARA 313:</u>	No products were found	
<u>State regulations:</u>		
Massachusetts:	None of the compounds are listed	
New York:	None of the components are listed	
New Jersey:	None of the components are listed	
Pennsylvania:	None of the components are listed	
California Prop.65:	No products were found	
<u>Canada</u>		
<u>Canadian lists:</u>		
Canadian NPRI:	None of the components are listed	
CEPA Toxic substances	None of the components are listed	
Canada Inventory:	All components are listed or exempted	
<u>International lists</u>		
<u>National inventory</u>		
Australia:	All components are listed or exempted	
China:	All components are listed or exempted	
Europe:	All components are listed or exempted	

Japan:	All components are listed or exempted
Malaysia:	All components are listed or exempted
New Zealand:	All components are listed or exempted
Philippines:	All components are listed or exempted
Republic of Korea:	All components are listed or exempted
Taiwan:	Not determined

16. Other Information

COMMENTS: The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), Hazardous Materials Identification System (HMIS), and Canada's Workplace Hazardous Information System (WHMIS) and Environmental Protection Agency (CEPA).

Disclaimer Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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