SAFETY DATA SHEET



This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2012), the American National Standards Institute (Z400.1, 1998), and equivalent state Standards. It has also been developed in accordance with the Canadian Workplace Hazardous Materials Standard and the United Nations Globally Harmonized System of Classification of Chemicals. Refer to Section 16 of this document for the definition of terms and abbreviations.

SECTION 1: IDENTIFICATION of the Substance/Mixture and of the Company/Undertaking

1.1 PRODUCT IDENTIFIER:

PRODUCT NAME: PICKLE SAFE
 SYNONYMS: Not applicable
 CHEMICAL NAME/CLASS: Sodium Bisulfate

• PRODUCT CODE(s): 45.135 (10 oz), 45.136 (2.5 lb), 45.137 (40 lbs)

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE OR USES ADVISED AGAINST

IDENTIFIED USE: Various ApplicationsUSES ADVISED AGAINST: None Specified

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

DISTRIBUTED BY: GROBET FILE CO. OF AMERICA, INC.
 ADDRESS 750 Washington Ave.; Carlstadt, NJ 07072

• BUSINESS PHONE: 201-939-6700; Toll Free – 800-847-4188 (USA only)

• EMERGENCY PHONE: 1-800-255-3924 (9 am – 5 pm EST)

1.4 OTHER PERTINENT INFORMATION

This product is sold in relatively small quantities. This SDS has been developed to address safety
concerns affecting small volume handling situations and those involving warehouses and other
workplaces where large numbers of these items are stored or distributed.

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

REGULATION			CLASSIFICATION
OSHA (GHS)	HAZARD	COMMUNICATION	Serious Eye Damage, Eye Irritation - Category 1

SECTION 2: HAZARDS IDENTIFICATION (Continued)

2.2 LABEL ELEMENTS:

OSHA- BASED ON GLOBALLY HARMONIZED SYSTEM

Symbol: To the right.
Signal Word: Danger.
Hazard statement(s)

Causes serious eye damage.

Precautionary statement(s)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
- Immediately call a POISON CENTER or doctor/ physician.
- Wear protective gloves and eye and face protection.

2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

Health	2
Flammability	0
Physical Hazard	0
Protective Equipment	B/C

HMIS Personal Protective Equipment Rating:
Occupational Use situations: B/C; Safety glasses and gloves/ body protection suitable to specific circumstances of use should be considered.

CANADIAN REGULATORY STATUS

This product is classified as hazardous under Canadian Controlled Products regulations (SOR-88-66). WHMIS 2015: See above information. Pre-2015 WHMIS: E: Corrosive.



This SDS contains all the information required by the CPR.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

COMPONENT	CAS NUMBER	EINECS#	GHS HAZARD CLASSIFICATION	% (w/w)
Sodium Bisulfate	7681-38-1	231-665-7	Serious eye damage (Category 1)	100%

SECTION 4: FIRST AID MEASURES

4.1 <u>DESCRIPTION OF FIRST AID MEASURES</u>

Eyes: Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention immediately. **Skin:** Flush area with warm, running water for 15 minutes. **Inhalation**: If dusts of this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. **Ingestion:** Contact a Poison Control Center or physician for instructions. If professional advice is not available, do not induce vomiting. Victim should drink milk, egg whites, or large quantities of water. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

ACUTE: <u>CONTACT WITH SKIN or EYES</u>: Contact causes severe eye or skin irritation. Eye contact can cause redness, pain, and tearing and tissue damage. Skin contact can result in redness and irritation. The dusts of this product may also abrade eye tissue. Prolonged or repeated skin contact may result in severe irritation, skin damage, or dermatitis. <u>SKIN ABSORPTION</u>: No component of this product is reported to be absorbed through intact skin.



SECTION 4: FIRST AID MEASURES

- <u>INGESTION</u>: If the product is swallowed, irritation of the mouth, throat, and other tissues of the gastro-intestinal system will occur. Ingestion of large amounts can cause severe irritation, pain, vomiting, and diarrhea. <u>INHALATION</u>: Overexposure to dusts of this product causes irritation to the respiratory tract. Symptoms of such exposure can cause coughing, wheezing, and inflammation of the tissues of the nose, throat, and other respiratory system organs.
- **CHRONIC:** Prolonged or repeated contact to this product can result in severe irritation to exposed tissue and may lead to damage of exposed tissues.
- TARGET ORGANS: Acute eyes, skin. Chronic skin, eyes.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- **RECOMMENDATIONS TO PHYSICIANS**: Treat symptoms and eliminate exposure.
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Eye, skin disorders, and respiratory disorders.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

- **RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, Halon, or any other.
- UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE



NFPA FLAMMABILITY CLASSIFICATION: Not flammable.

UNUSUAL HAZARDS IN FIRE SITUATIONS: This product is non-combustible. This product does not significantly contribute to the intensity of a fire. Use extinguishing material suitable to the surrounding fire.

Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: Not sensitive.

5.3 ADVICE FOR FIREFIGHTERS

Wear Self Contained Breathing Apparatus and full protective equipment for fire response. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Contaminated equipment should be rinsed thoroughly with water before returning to service.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases (e.g., under 1 kg). For small releases, the minimum Personal Protective Equipment should be rubber gloves and rubber apron, splash goggles or safety glasses. Use caution during clean-up; avoid stepping into spilled solid or clean-up procedures that generate substantial amounts of dust.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** For large-scale releases of this product, minimum Personal Protective Equipment should be Level C: triple-gloves, chemical resistant apron, boots, and splash goggles and air purifying respirator equipped with a HEPA filter. Level B protection should be used when oxygen levels are below 19.5% or are unknown.

SECTION 6: ACCIDENTAL RELEASE MEASURES (Continued)

RESPONSE PROCEDURES FOR ANY RELEASE: Wipe up solid residue with damp polypads or sponge.
Rinse area with soap/water solution followed by a water rinse. Alternatively a broom/dustpan can be used
for removing spilled solid; these items should be discarded or rinsed thoroughly with water before returning
to service.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid response actions that can cause a release of a significant amount of the substance (1 kg or more) into the environment.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

• SPILL RESPONSE EQUIPMENT: Broom/dustpan or Polypad/sponge.

6.4 REFERENCES TO OTHER SECTIONS

- SECTION 8: For exposure levels and detailed personal protective equipment recommendations.
- SECTION 13: For waste handling guidelines.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

- HYGIENE PRACTICES: Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of dusts. Use in wellventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
- HANDLING RECOMMENDATIONS: Employees must be appropriately trained to use this product safely
 as needed. When mixing this product with water, slowly add the product to the water, to prevent
 splattering. Keep containers closed when not in use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

• STORAGE RECOMMENDATIONS: Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals (See Section 10, Stability and Reactivity). Empty containers may contain residual material; therefore, empty containers should be handled with care. Material should be stored in secondary containers, or in a diked area, as appropriate. Storage and use areas should be covered with impervious materials. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

• U.S. NATIONAL EXPOSURE LIMITS:

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
		(ppm)	(ppm)	
Sodium Bisulfate	NE	NE	NE.	NE.

• **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** There are no Biological Exposure Indices (BEIs) for components of this product.

8.2 EXPOSURE CONTROLS

- **ENGINEERING CONTROLS:** Use this product in well-ventilated environment. Safety showers, eye wash stations, and hand-washing equipment should be available.
- **RESPIRATORY PROTECTION:** None needed under normal conditions of use. Use NIOSH approved respirators if ventilation is inadequate to control dusts. For situations in which significant amounts of dusts could be generated, wear an air-purifying respirator with a high-efficiency particulate filter.
- **HAND PROTECTION:** Nitrile or neoprene gloves should be used. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS.
- EYE PROTECTION: Splash goggles or safety glasses.
- **BODY PROTECTION:** Use a body protection appropriate to task (e.g., lab coat, coveralls, or apron). Care should be taken to select protection for potentially exposed areas when prolonged exposure could occur in occupational settings.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

- (a) APPEARANCE: Off-white solid (dry, spherical crystalline beads).
- **(b) ODOR:** Sharp, pungent.
- **(c) ODOR THRESHOLD:** Not determined. **(d) pH:** 6.5 (1% w/w solution in water).
- (e) MELTING POINT/FREEZING POINT: 177 °C (350 °F)
- (f) INITIAL BOILING POINT AND BOILING RANGE: Not applicable.
- (q) FLASH POINT: Not applicable.
- (h) EVAPORATION RATE (water=1): Not applicable.
- (i) FLAMMABILITY: Not flammable.
- (j) UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not applicable.

9.2 <u>OTHER INFORMATION</u>

- VOC (less water & exempt): Not applicable.
- WEIGHT% VOC: Not applicable.

- (k) VAPOR PRESSURE (mmHg @ 20°C): 5 hPa (4 mmHg) at 20 °C (68 °F)
- (I) VAPOR DENSITY: Not applicable.
- (m) DENSITY: 1.28 g/cm at 20 °C (68 °F) (n) SOLUBILITY: 52.9% Soluble in water.
- (o) PARTITION COEFFICIENT: N OCTANOL/WATER: Not determined.
 (p) AUTO-IGNITION TEMPERATURE: Not applicable.
- (q) DECOMPOSITION TEMPERATURE: 460 °C (860 °F)
- (r) VISCOSITY: Not applicable.
- (s) EXPLOSIVE PROPERTIES: Not applicable. (t) OXIDIZING PROPERTIES: Not an oxidizer.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Not reactive under typical conditions of use or handling; contact with water can generate some amount of heat.

10.2 CHEMICAL STABILITY

Normally stable under standard temperatures and pressures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

- This product is not self-reactive or air-reactive.
- This product will not undergo hazardous polymerization.

10.4 CONDITIONS TO AVOID

Avoid contact with incompatible chemicals.

10.5 INCOMPATIBLE MATERIALS

This product is not compatible with bleach, ammonia cleansers, strong oxidizers, strong bases.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

 Products of thermal decomposition of this product can include carbon monoxide, carbon dioxide and compounds of sodium and sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

 ACUTE TOXICITY: The following data are available for hazardous components in this product greater than 1% in concentration.

SODIUM BISULFATE

Mutation in Microorganisms-other microorganisms 1000 ppm

- DEGREE OF IRRITATION: Mild to severe, depending on duration of exposure.
- SENSITIZATION: Sodium Bisulfate, components of this product, is a potential skin sensitizer.
- REVIEW OF ACUTE SYMPTOMS AND EFFECTS: See Section 2 (Hazards Information) and Section 4 (First-Aid Measures) for further details.
 - EYES: Can cause mild to severe irritation. Prolonged contact can cause severe injury.
 - SKIN: Can cause mild to severe irritation, depending on duration of exposure.
 - INHALATION: Dusts of this product can cause mild to severe nasal irritation.
 - INGESTION: Although not anticipated to be a significant route of occupational overexposures, ingestion of this product may irritate the mouth, throat, and other contaminated tissue and cause other adverse health effects.

• CHRONIC TOXICITY

- o CARCINOGENICITY STATUS: Not applicable.
- REPRODUCTIVE TOXICITY INFORMATION: The components of this product are not reported
 to cause reproductive effects under typical circumstances of exposure at the concentrations
 present in this product.
- MUTAGENIC EFFECTS: The components of this product may cause mutagenic effects, based on animal testing.
 - SODIUM BISULFATE: Exposure to Sodium bisulfate is reported to cause mutagenic effects in microorganisms and/or animal tissue studies.
- SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable.

OTHER INFORMATION

- TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.
- ADDITIONAL TOXICOLOGY: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

- Based on available data, this product can be harmful or fatal to contaminated terrestrial plants or animals.
- Based on available data, this product can be harmful or fatal to contaminated aguatic plants or animals.

12.2 PERSISTENCE AND DEGRADABILITY

• When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

12.3 BIOACCUMULATIVE POTENTIAL

The components of this product are not anticipated to bioaccumulate in any significant quantities.

12.4 MOBILITY IN SOIL

 It is to be expected this product will have small mobility in soil. Some of the components may get into the soil and, ultimately, the ground water.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

- WASTE HANDLING RECOMMENDATIONS: Prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, the applicable Canadian standards, or the appropriate standards of the nations of the European Community.
- PRECIOUS METAL RECLAMATION: When applicable and practical, users of the product may wish to utilize precious metal reclamation services for final disposition of wastes.

SECTION 14: TRANSPORT INFORMATION

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

 This material is not hazardous for shipment, per the Hazardous Materials Regulations or Dangerous Goods Codes. Please contact the manufacturer if there are questions pertinent to the shipment of this product.

14.2 ENVIRONMENTAL HAZARDS

None described, as related to transportation.

14.3 SPECIAL PRECAUTIONS FOR USERS

Not applicable.

14.4 TRANSPORT IN BULK

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1: SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE MIXTURE.

OTHER IMPORTANT U.S. REGULATIONS

- U.S. SARA THRESHOLD PLANNING QUANTITY: Not applicable.
- U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: Np; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
- o U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.
- o U.S. TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory.
- o US SARA 313: Not applicable.
- o CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: Not applicable.

INTERNATIONAL REGULATIONS

- CANADIAN DSL/NDSL INVENTORY STATUS: The listed components of this product are on the DSL/NDSL Inventory.
- CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The
 components of this product are not on the CEPA Priorities Substances Lists.

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SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE.

- CHANGE INDICATED: Update per OSHA Hazard Communication Standard (29 CFR 1910.1200).
- DATE OF PUBLICATION: November 16, 2015 (New)
- SUPERCEDES: Not applicable.

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEETS FOR COMPONENT PRODUCTS.
- SAX Dangerous Properties of Industrial Materials
- RTECS Registry of Effects of Toxic Chemicals
- ECHA: European Chemical Hazards Agency http://echa.europa.eu/en/information-on-chemicals/
- TOXNET: http://toxnet.nlm.nih.gov/

16.3 ABBREVIATIONS AND ACRONYMS.

ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. REACH: European Union regulation, Registration, Evaluation, Authorization and Restriction of Chemical substances.

SECTION 2: <u>CAS Number</u>: Chemical Abstract Service Number, which is used by the American chemical Society to uniquely identify a chemical. <u>EINECS</u>: European Inventory of Existing Commercial Substances.

SECTION 3: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 5: NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (FI.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: FI.P. below 73°F and BP below 100°F. Class IB: FI.P. below 73°F and BP at or above 100°F. Class IC: :FI.P. at or above 73°F and BP at or above 100°F. Class II: FI.P. at or above 100°F and below 140°F. Class IIIA: FI.P. at or above 140°F and below 200°F. Class IIIB: FI.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 8: NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health Concentrations. Note: In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. ppm: Parts per Million. mg/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit. EL: Exposure Limit (United

Kingdom). Federal Republic of Germany (<u>DFG</u>) Maximum Concentration Values in the Workplace (MAKs)

SECTION 9: pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWED EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition. ≈: Approximately symbol.

SECTION 11: CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LDxxor LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans. TDxxor TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.

SECTION 12: TLm - Median Tolerance Limit

SECTION 13: RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. <u>EPA RCRA Waste Codes</u>: Defined in 40 CFR Section 261.

SECTION 15: CERCLA: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. DSL/NDSL: Canadian Domestic Substances and Non-Domestic Substances Lists