



Safety Data Sheet

Conforms to OSHA Hazard Communication Standard 2024 and aligns with the United Nations Globally Harmonized System Revision 7

Revision Date: 07/08/2025

Revision 01

Section 1 - Chemical Product and Company Identification

1.1 Product Name: 2025 Sodium Bicarbonate Technical Grade

1.2 Distributor: Vitro Chemicals, Fibers & Mining, LLC, 216 West Village Suite 102. Laredo, TX 78041 (956)704-1151

1.3 Product Use: Swimming pool additive, Food baking additive, Animal feed additive

1.4 Emergency Telephone: Hazmat Service 1-800-373-7542

1.5 Contract Number 1186

Section 2 - Hazards Identification

GHS HAZARD

2.1 Hazard Classes

Not classified

Hazard Categories

Not classified

2.2 Signal Word: **None**

2.3 Pictograms: **None**

2.4 Hazard Statements

PHYSICAL HAZARDS:	Not Classified
HEALTH HAZARDS:	Not Classified
ENVIRONMENTAL HAZARDS:	Not Applicable
PRECAUTIONARY STATEMENTS:	Not Applicable
RESPONSE STATEMENTS:	Not Applicable
STORAGE STATEMENTS:	Not Applicable
DISPOSAL STATEMENTS:	Not Applicable

2.5 Hazards not otherwise classified (HNOC) or not covered by GHS: WARNING: May form an explosive dust-air mixture if dispersed. Keep away from all ignition sources, including heat, sparks, and flame. Prevent dust accumulations to minimize explosion hazards. Control dust exposures below the applicable occupational exposure limits. OSHA states that all dust should be considered combustible.

2.6 Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

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0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Section 3 - Composition / Information on Ingredients

3.1

CAS #	Chemical Name	Synonym	Percent	GHS Classification
144-55-8	Sodium Bicarbonate	Baking Soda	99-100	None

Section 4 - First Aid Measures

4.1 Description of First Aid Measures

4.1.1 Following Inhalation: Remove the victim to fresh air and keep them at rest in a comfortable breathing position. Report any problems to a poison center or doctor/physician.

4.1.2 Following Skin contact: Flush the affected area with soap and water for at least 15 minutes while removing any contaminated clothing and shoes. If irritation persists, seek medical attention. Wash clothing before reusing.

4.1.3 Following eye contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids to ensure thorough rinsing. Get medical aid.

4.1.4 Following ingestion: Rinse your mouth with water. Immediately after ingestion, drink plenty of water. Do not induce vomiting. Contact the **National POISON CENTER at 800-222-1222**, a doctor, or medical service if you feel unwell. Ingestion of large quantities: seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1: Symptoms and effects after inhalation: AFTER INHALATION OF DUST: Dry and sore throat. Coughing. Slight irritation. EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties.

4.2.2: Symptoms/and effects after skin contact: Dry skin.

4.2.3: Symptoms and Effects after Eye Contact: Contact with the eyes can irritate. Symptoms may include discomfort, pain, and redness. Severe overexposure can result in swelling of the conjunctiva along with tissue damage.

4.2.4: Symptoms and effects after ingestion: AFTER INGESTION OF HIGH QUANTITIES: Nausea. Vomiting. Abdominal pain. Irritation of the gastric/intestinal mucosa.

4.2.5: Chronic symptoms: ON CONTINUOUS or REPEATED EXPOSURE or CONTACT: Red skin. Dry skin. Tingling/irritation of the skin. Affection of the nasal septum.

4.3 Indication of any immediate medical attention and special treatment needed: The severity of the outcome following exposure may be related to the time between exposure and treatment, rather than the amount of exposure. Therefore, rapid treatment of any exposure is necessary.

Section 5 - Fire-Fighting Measures

5.1 Flammable Properties: Not flammable; however, may produce combustible dust.

5.2 Suitable Extinguishing Media: Carbon dioxide, dry chemical powder, or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.

5.3 Special hazards arising from the substance or mixture: The substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

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5.4 Precautions for Firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Contact with metals may evolve flammable hydrogen gas.

Section 6 - Accidental Release Measures

6.1 Personal Precautions: Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation in the area or move the container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Before entry, especially into confined areas, check the atmosphere with an appropriate monitor.

6.2 Methods for Containment and Clean-up

Contain the discharged material. If sweeping of a contaminated area is necessary, use a dust suppressant agent.

6.3 Other Information: Report spills to local health, safety, and environmental authorities, as required.

Section 7 - Handling and Storage

7.1 Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not breathe dust. Minimize dust generation and accumulation. Do not get in the eyes, on the skin, or clothing.

7.2 Storage: Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep quantities stored as small as possible. The storage area should be identified, free from obstructions, and accessible only to trained and authorized personnel.

Section 8 - Exposure Controls / Personal Protection

8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Sodium Bicarbonate	5 mg/m ³ TWA Respirable fraction	5 mg/m ³ TWA Respirable fraction

8.2 ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

NOTE: TWA Means "TWA is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week, which shall not be exceeded."

8.3 Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.4 Personal protective equipment

8.4.1 Respiratory protection respirator Use a type N100 as a backup to engineering controls.

8.4.2 Hand protection

Handle with gloves. Gloves must be inspected before use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the **ANSI/ISEA 105-2011**

Full contact: Nitrile rubber

Splash contact: Nitrile rubber

8.4.3 Eye protection

Face shield and safety glasses. Use equipment for eye protection that is tested and approved under the appropriate government standards, such as those set by NIOSH (US).

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8.4.4 Skin and body protection

Personal protective equipment for the body should be selected based on the task being performed and the associated risks, and it should be approved by a specialist before use. Chemical-resistant gloves should be worn at all times when handling chemicals to protect against potential exposure to hazardous substances.

8.5 Protective Clothing Pictograms



Section 9 - Physical and Chemical Properties

9.1

Physical state: Solid powder

Color: White

Odor: Odorless

Odor threshold: Not Available

Melting point/freezing point: Not Available

Boiling point (or initial boiling point or boiling range): Not Available

Flammability: Combustible dust

Lower explosion limit: Not Available

Upper explosion limit: Not Available

Flashpoint: Not Available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

pH: 8.3

Kinematic viscosity: Not Available

Dynamic viscosity: Not Available

Solubility: Soluble in hot water

Partition coefficient n-octanol/water (log value): Not Available

Vapor pressure (includes evaporation rate): Not Available

Density: Not Available

Relative density: 2.1

Molecular Formula: NaHCO₂

Molar Mass (g/mol): 84.01

Section 10 - Stability and Reactivity

10.1 Chemical Stability: Stable under ordinary conditions of use and storage.

10.2 Conditions to Avoid: Exposure to moisture may affect product quality.

10.3 Incompatible Materials: Acids, combustible materials, metals.

10.4 Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

10.5 Hazardous Polymerization: will not occur.

Section 11- Toxicological Information

11.1 Toxicity Data

Chemical Name	LD50 oral rat	LC50 Dermal Rat
Sodium Bicarbonate	4220mg/kg	2630mg/kg

11.2 Carcinogenicity: No

Chemical Name	IARC	NTP	OSHA
Sodium Bicarbonate	Not Listing	Not listed	Not Listed

11.3 Key to Abbreviations

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = Occupational Safety and Health Administration

11.4 Routes: Ingestion and Inhalation.

11.5 Inhalation: Dust may cause Irritation to the respiratory system

11.6 Ingestion: This material may irritate the mouth, esophagus, and stomach. Carbon dioxide gas may be released, causing distention, belching, and possible rupture of the stomach. Ingestion of up to 140 grams per day for 3 weeks may result in fluid retention.

11.7 Skin Contact: May cause skin irritation.

11.8 Eye Contact: May cause eye irritation.

11.9 Reproductive Toxicity: Not a reproductive hazard.

11.10 Mutagenicity: Not a mutagen.

11.11 Teratogenicity: Not harmful to the unborn child

11.12 Signs and Symptoms of Exposure: Dust may produce irritation of the eyes, mouth, and respiratory tract. Inhalation of the dust may produce severe irritation of the respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Section 12 - Ecological Information

12.1

Sodium Bicarbonate	LC50 8250 mg/l	Fish	96 hours
Sodium Bicarbonate	EC50 2350 mg/l	Daphnia	48 hours

Toxicity: Not toxic to aquatic organisms, but it contains runoff.

Mobility in soil: No Data available

Persistence/degradability: No Data available

Bioaccumulation: No Data available

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PBT and vPvB assessment: No Data available

Section 13 - Disposal Considerations

13.1 Disposal: DO NOT REUSE EMPTY CONTAINER! A container with residues should be considered solid waste. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

Section 14 - Transport Information

14.1

Regulatory Information	UN #	Proper Shipping Name	Hazard Class	PG	Label	Additional Information
US DOT Classification		Not Regulated				

Section 15 - Regulatory Information

15.1 US Regulations:

TSCA: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CERCLA Hazardous Substances and corresponding RQs None

SARA Community Right-to-Know Program: None

Clean Water Act: None

Clean Air Act: None

OSHA: All ingredients are listed in 1910.1200.

State Regulations

California prop. 65: None

Chemicals on the following State Right to Know Lists:

Massachusetts: All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements.

New Jersey: All components of this product are on the New Jersey inventory or are exempt from Inventory requirements.

Pennsylvania: All components of this product are on the Pennsylvania Inventory or are exempt from Inventory requirements.

Section 16 - Other Information

16.1 Disclaimer: The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO responsibility is assumed for any damage or injury resulting from abnormal use or failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving it shall decide the product's suitability for their particular purpose and that they assume the risk of its use.

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16.2 References: European Chemical Agency Database and MSDS, and SDS of this chemical.

16.3 SJC Compliance Education Inc. (SJC) did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by Vitro Chemicals, Fibers & Mining, LLC., or was reproduced from publicly available regulatory data sources and product SDSs. SJC makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability concerning the use of this information or the substance described in this SDS.

16.4 SDS Preparation Date: 05/22/2015

SDS Previous Issue Date: None

SDS Revision Date: 07/08/2025 **Revised Sections:** 1,2,4,5,8,9,11,12,16

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END OF SAFETY DATA SHEET