



Safety Data Sheet

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System

Conforms to The United Nations Regulation Globally Harmonized System

Date of Revision: 01/18/2019

Revision: 02

Section 1 - Chemical Product and Company Identification

1.1 Product Name: **Sodium Bicarbonate**

Other Identification: Sodium hydrogen carbonate; sodium acid carbonate; carbonic acid monosodium salt; bicarbonate of soda; baking soda.

1.2 Distributor: Vitro Chemicals, Fibers & Mining, LLC, 13481 Resource Drive, Laredo, TX 78045 (800)258-1545

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

1.4 Emergency Telephone: Hazmat Service 800-373-7542

1.5 Contract Number 1186

Section 2 - Hazards Identification

GHS HAZARD

2.1 Classification of the substance or mixture: Not a classified substance or mixture.

2.2 GHS Label elements, including precautionary statements: Not a classified substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: Although not classified as a GHS regulated material, the respirable dust is a potential respiratory tract irritant.

2.4 OSHA Hazard Statement

Warning! May cause eye and skin irritation. May cause respiratory tract irritation.

Section 3 - Composition / Information on Ingredients

3.1

Chemical Names	CAS #.	Concentration%	Classification
Sodium Bicarbonate	144-55-8	99 - 100%	Not Classified

Section 4 - First Aid Measures

4.1 Eye: Contact with the eyes can cause mild irritation. Symptoms may include discomfort or pain and redness. Severe overexposure can result in swelling of the conjunctiva along with tissue damage.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.2 Skin: Prolonged or repeated skin contact with this product may cause mild irritation.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

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4.3 Ingestion: Sodium Bicarbonate is of low oral toxicity; however, ingestion of large amounts of Sodium Bicarbonate can cause metabolic alkalosis.

Ingestion: Do NOT induce vomiting. Get medical aid immediately.

4.4 Inhalation: Dusts of this product can be irritating to the respiratory system.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult and **IF TRAINED**, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation without protection.

4.5 After first aid, get appropriate paramedic, or community medical support.

Note to Physicians: The severity of outcome following an exposure may be more related to the time between the exposure and treatment, rather than the amount of the exposure. Therefore, there is a need for rapid treatment of any exposure.

Section 5 - Fire-Fighting Measures

5.1 Flammable Properties: Not flammable

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: When heated to decomposition Sodium Bicarbonate emits acrid smoke, fumes, and carbon dioxide and sodium oxides.

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 to area or move 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 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 eyes, on skin, or on clothing.

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

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Section 8 - Exposure Controls / Personal Protection

8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Sodium Bicarbonate	None Shown	None Shown

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.

8.5 Personal protective equipment

8.5.1 Respiratory protection respirator Use a type N100.

8.5.2 Hand protection

Handle with gloves. Gloves must be inspected prior to 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

8.5.3 Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

8.5.4 Skin and body protection

Chemical splash protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.9 Protective Clothing Pictograms



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Section 9 - Physical and Chemical Properties

9.1

Physical State: Solid granules	Water Solubility: Soluble
Appearance: White	Melting point/freezing point: Not Available
Odor: Odorless	Flash Point: Not Data Available
Vapor Pressure: Not Available	Boiling Point / Range: 3038°F (1670°C)
Vapor Density (Air=1): Not Data Available	Lower Explosive Limits (vol % in air): N/A
Specific Gravity (H ₂ O=1,): 1.3	Upper Explosive Limits (vol % in air):N/A
Relative Density: Not Available	Viscosity: Not Available
Odor Threshold: Not Available	Auto ignition Temperature: Not Available
Flammability (solid, gas): Not applicable.	Decomposition temperature: Not Available
Evaporation rate: Not Available	pH: 9
Partition coefficient octanol/water: Not Available	

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: Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Calcium chloride is attacked by bromine trifluoride.

10.4 Hazardous Decomposition: When heated to decomposition, calcium chloride emits toxic fumes of hydrogen chloride.

10.5 Hazardous Polymerization: Violent polymerization occurs when mixed with Methyl Vinyl Ether.

Section 11- Toxicological Information

11.1 Toxicity Data

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

11.1.1: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to be Harmful Oral Toxicity.

11.1.2: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to be Harmful Dermal Toxicity.

11.2 Route of Entry: Inhalation

11.3 Aspiration Hazard: European Chemical Agency Data Base shows that this product is not fatal if swallowed and enters airways.

11.4 Mutagenicity: European Chemical Agency Data Base show that this product will not cause genetic defects.

11.5 Skin Corrosion/Irritation: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause mild skin irritation.

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11.6 Serious Eye Damage/Irritation: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause eye irritation.

11.7 Specific Target Organ Toxicity (Single Exposure): European Chemical Agency Data Base shows that this product will not cause single target organ toxicity.

11.8 Reproductive toxicity: European Chemical Agency Data Base shows that this product will not cause damage to fertility or the unborn child.

11.9 Skin Sensitisation OECD Guideline Test results found in the European Chemical Agency Data Base show components of this product to cause skin sensitively.

11.10 Respiratory Sensitisation OECD Guideline Test results found in the European Chemical Agency Data Base show no components of this product to cause respiratory sensitively.

11.11 Target Organ Toxicity (Repeated Exposure): European Chemical Agency Data Base shows that this product will not cause repeated target organ toxicity.

11.12 Signs and Symptoms of Exposure: Dust may produce irritation of eyes, mouth and respiratory tract. Inhalation of the dust may produce irritation of 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.

11.13 Carcinogenicity: European Chemical Agency Data Base shows that this product will not cause cancer.

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

Key to Abbreviations

IARC = International Agency for Research on Cancer.

ACGIH= American Conference of Governmental Industrial Hygienists

NTP = National Toxicology Program.

Section 12 - Ecological Information

12.1

Sodium Bicarbonate	LC50 759 mg/l	Fish	96 hours
Sodium Bicarbonate	EC50 590mg/l	Daphnia	48 hours

Toxicity Not toxic to aquatic organisms, contain runoff

Mobility in soil: No Data available

Persistence/degradability: No Data available

Bioaccumulation: No Data available

PBT and vPvB assessment: No Data available

Section 13 - Disposal Considerations

13.1 Disposal: DO NOT REUSE EMPTY CONTAINER! Container with residues should be considered to be hazardous wastes. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

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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

TRI: None

CERCLA Hazardous Substances and corresponding RQs None

SARA Community Right-to-Know Program: Sodium Bicarbonate

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 from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

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16.2 References: CHEMpendium data base of Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller on Line, European Chemical Agency Data Base and MSDS and SDS of chemicals in this mixture.

16.3 SDS Preparation Date: 06/01/2015

SDS Revision Date: 02/26/2016 Section 1 Distributor Name and address Sections 9, 11

SDS Revision Date: 01/18/2019 Sections 2,3,4,8,11,14,15

SDS Revision Date: 01/29/2019 Sections 2

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