



genesisalkali

SAFETY DATA SHEET Sodium Bicarbonate TFF

SDS #: 144-55-8-7
Revision date: 2024-12-06
Format: NA
Version: 3.05

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Sodium Bicarbonate TFF

Other means of identification

Product Code(s) 144-55-8-7

Synonyms Baking Soda, Bicarbonate of Soda

Recommended use of the chemical and restrictions on use

Recommended Use: Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, feed additive

Restrictions on Use: See section 16 for more information

Manufacturer Address

Genesis Alkali Wyoming, LP.
1735 Market Street
Philadelphia, PA 19103
Tel: +1 877 / 362-2248 or +1 215 / 845-4500
www.alkali.genesisenergy.com
Made in the U.S.A.

Emergency telephone number

1 307 / 872 2452 (Plant - Green River, WY)
(303) 595-9048 (Medical - U.S. - Call Collect)

For leak, fire, spill, or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A. & Canada)
1 703 / 527 3887 (CHEMTREC - All Other Countries - Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements**EMERGENCY OVERVIEW**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Product dust may cause mechanical eye irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula NaHCO₃

| Chemical name | CAS-No | Weight % |
|--------------------|-------------|----------|
| Sodium Bicarbonate | 144-55-8 | 99-100 |
| Flow Aid | Proprietary | <1 |

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

| | |
|---|---|
| Eye Contact | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| Skin Contact | Wash skin with soap and water. Get medical attention if irritation develops and persists. |
| Inhalation | Remove person to fresh air. If signs/symptoms continue, get medical attention. |
| Ingestion | Never give anything by mouth to an unconscious person Get medical attention if symptoms occur |
| Most important symptoms and effects, both acute and delayed | None known. |
| Indication of immediate medical attention and special treatment needed, if necessary | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Specific Hazards Arising from the Chemical | None in particular. Not flammable |
| Hazardous Combustion Products | None. |
| <u>Explosion data</u> | |
| Sensitivity to Mechanical Impact | Not sensitive. |
| Sensitivity to Static Discharge | Not sensitive. |

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid dust formation.

Other For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

Environmental Precautions Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information for more detailed information.

Methods for Containment Vacuum or shovel waste into a drum and label contents for disposal.

Methods for cleaning up Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

Storage Keep in a dry place. Keep away from incompatible products (acids). Do not store with strong smelling materials.

Incompatible products Except under controlled conditions: Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies Local nuisance dust standards apply

Appropriate engineering controls

Engineering measures Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and Body Protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

General information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|------------------------------|---------------------------|
| Appearance | Crystalline, Powder |
| Physical State | Solid |
| Color | White |
| Odor | odorless |
| Odor threshold | Not applicable |
| pH | 8.3 (1% solution) @ 25 °C |
| Melting point/freezing point | Not applicable |
| Boiling Point/Range | No information available |
| Flash point | Not applicable |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | Negligible |
| Vapor density | No information available |
| Density | No information available |
| Specific gravity | 2.22 |
| Water solubility | 96 g/L @ 20 °C |
| Solubility in other solvents | No information available |
| Partition coefficient | Not applicable |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidizing properties | Non-oxidizing |
| Molecular weight | 84.01 |
| Bulk density | 66 lb/cu ft |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | None under normal use conditions. |
| Chemical Stability | Stable. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Heat. Humid air. Avoid contact with acids except under controlled conditions. Keep away from strong odor. |
| Incompatible materials | Except under controlled conditions: Acids. |
| Hazardous Decomposition Products | Reacts with acids to release carbon dioxide gas and heat. |

11. TOXICOLOGICAL INFORMATION**Product Information**

| | |
|-----------------|--------------------------|
| LD50 Oral | > 5,000 mg/kg (rat) |
| LD50 Dermal | No information available |
| LC50 Inhalation | > 4.74 mg/L (rat) 4.5 hr |
| Eye Contact | Non-irritating. |
| Skin Contact | Non-irritating |
| Sensitization | Non-sensitizing. |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity No known effect.
Mutagenicity Not mutagenic.
Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Sodium Bicarbonate (144-55-8) | | | | |
|-------------------------------|-------------------------------|--|----------------------------|-------|
| Active Ingredient(s) | Duration | Species | Value | Units |
| Sodium bicarbonate | 96 hr. | <i>Lepomis macrochirus</i> (Bluefill sunfish) | NOEC: 5,200 LC50: 7,100 | mg/L |
| Sodium bicarbonate | 48 hr. immobilization test | <i>Daphnia magna</i> | NOEC: 3,100 EC50: 4,100 | mg/L |
| Sodium bicarbonate | 96 hr. | <i>Oncorhynchus mykiss</i> (rainbow trout) | NOEC: 2,300 LC50: 7,700 | mg/L |

Persistence and degradability Biodegradability does not pertain to inorganic substances.

Bioaccumulation Does not bio-accumulate.

Mobility Dissociates into ions.

Other Adverse Effects None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT NOT REGULATED
TDG NOT REGULATED
ICAO/IATA NOT REGULATED
IMDG/IMO NOT REGULATED

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | No |
| Chronic health hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

Clean Water Act


This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

 **WARNING:** *This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.*

U.S. State Right-to-Know Regulations

This product is not listed on state right-to-know regulations

International Inventories

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELI NCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|--|----------------------|--------------|-------------------------|--------------|---------------|--------------|---------------------|------------------|
| Sodium Bicarbonate 144-55-8 (99-100) | X | X | X | X | X | X | X | X |
| Flow Aid (<1) | X | X | X | X | X | X | X | X |

16. OTHER INFORMATION

| | | | | |
|-------------|-------------------------|-----------------------|--------------------------|------------------------------|
| NFPA | Health Hazards 0 | Flammability 0 | Instability 0 | Special Hazards - |
| HMIS | Health Hazards 0 | Flammability 0 | Physical hazard 0 | Personal Protection X |

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Product Certifications

Individually the components, Sodium Bicarbonate and TCP Flow Aid, meet the respective FCC requirements. The MUL (maximum use level) for sodium bicarbonate is 100 mg/L under NSF/ANSI/CAN Standard 60.



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Prepared By:

Genesis Alkali, LLC

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End of Safety Data Sheet