SAFETY DATA SHEET

Sodium Bicarbonate

SDS #: 144-55-8

Revision date: 2015-04-07

Format: NA Version 3.02



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Sodium Bicarbonate

Other means of identification

Product Code(s) 144-55-8

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: No information available

Manufacturer Address

Tronox Specialty Alkali Corporation

1735 Market Street Philadelphia, PA 19103

Tel: +1 877-362-2248 or +1 215-299-6904

www.tronox.com

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

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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	100

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

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Not sensitive. 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.

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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

HandlingUse 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 StateSolidColorWhiteOdorodorlessOdor thresholdNot 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

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Flammability (solid, gas)

Upper flammability limit:

Lower flammability limit:

Flammability Limit in Air

No information available
No information available

No information available

Vapor pressure Negligible

Vapor densityNo information availableDensityNo 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
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties

No information available
No information available
No information available
No information available

Oxidizing properties

Molecular weight

Bulk density

Non-oxidizing
84.01

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

Eye ContactNon-irritating.Skin ContactNon-irritatingSensitizationNon-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 toxicityMutagenicity
No known effect.
Not mutagenic.

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Reproductive toxicitySTOT - single exposure
No information available.
No information available.

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STOT - repeated exposure Aspiration hazard No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence and degradability Biodegradability does not pertain to inorganic substances.

Bioaccumulation Does not bioaccumulate.

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

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

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)

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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

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by 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 (100)	X	X	Х	X	X	X	X	Х

WHMIS Hazard Class Non-controlled

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

Products labeled USP meet the chemical testing specifications defined in the USP and Food Chemicals Codex (FCC), 8th Edition and are manufactured under GMP.

The MUL (maximum use level) for sodium bicarbonate is 100 mg/L under NSF/ANSI Standard 60.







Revision date: 2015-04-07 **Revision note** Minor change

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End of Safety Data Sheet