Material Safety Data Sheet

Sodium Bicarbonate

MSDS #: 144-55-8 **Revision Date:** 2014-01-07

Version 1.01



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 And Canadian Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Sodium Bicarbonate

Synonyms Baking Soda, Bicarbonate of Soda

Formula NaHCO3

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

additive

Manufacturer Emergency telephone number

FMC Wyoming Corporation 1 307 / 872 2452 (Plant - Green River, WY) Alkali Chemicals Division 1 303 / 595 9048 (Medical - U.S. - Call Collect)

1735 Market Street

Philadelphia, PA 19103 For leak, fire, spill or accident emergencies, call: Tel: +1 215 / 299 6000 1 800 / 424 9300 (CHEMTREC - U.S.A.)

E-Mail: msdsinfo@fmc.com 1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

2. HAZARDS IDENTIFICATION

Emergency Overview

Not classified as hazardous White crystalline powder

Potential health effects

Acute Toxicity

Eyes Non-irritating.

Skin Non-irritating to the skin.

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Ingestion None under normal use condtions.

Chronic Toxicity No known effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

ĺ	Chemical Name	CAS-No	Weight %
1	Sodium Bicarbonate	144-55-8	100

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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 Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical

attention if symptoms occur.

5. FIRE-FIGHTING MEASURES

Flammable properties Not flammable.

Flash Point Not combustible

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Hazardous combustion products No off odor.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Not sensitive. Not sensitive.

Specific hazards arising from the

chemical

None in particular.

NFPA Health Hazard 0 Flammability 0 Stability 0 Special Hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation.

Methods for containment Material may be recycled when contamination is not a problem

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with all

applicable national environmental laws and regulations.

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, cool and well-ventilated place. Keep away from heat. Keep away from incompatible

products (acids).

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits established

by the region specific regulatory bodies. Local nuisance dust standards apply.

Occupational exposure controls

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

good general extraction.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

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Eye/face protection Safety glasses with side-shields

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Hand protection Protective gloves

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance crystalline powder

ColorwhitePhysical statesolidOdorOdorlessOdor ThresholdNot applicable

pH 8.3 (1% solution) @ 25 °C

Melting Point/Range Decomposes

Freezing point No information available

Boiling Point/RangeNot applicableFlash PointNot combustibleEvaporation rateNot applicableFlammable propertiesNot flammable

Vapor pressure No information available

Vapor densityNot applicable **Density**0.88 g/cm³ (particle)

Specific Gravity2.22Bulk density66 lb/cu ftMolecular Weight84.01

Water solubility 9.0 % @ 20 °C

Percent volatile No information available

Partition coefficient Not applicable

Viscosity No information available

Decomposition Temperature No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to avoid None known

Materials to avoid Except under controlled conditions: Acids

Hazardous decomposition products Reacts with acids to release carbon dioxide gas and heat.

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects

RemarksThis product is approved for use as a food ingredient and is Generally Recognized as Safe (GRAS).

Eye irritation Non-irritating (rabbit) **Skin irritation** Non-irritating (rabbit)

May irritate abraded skin when moisture is present

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LD50 Oral 20% slurry: 4,300 mg/kg (Rat)

50% slurry: 6,000 mg/kg (rat)

LD50 Dermal No information available LC50 Inhalation No information available

Chronic Toxicity

Chronic Toxicity No known effect.

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

Mutagenicity This product is not recognized as mutagenic by Research Agencies.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Sodium Bicarbonate (144-55-8)

Active Ingredient(s)	Duration	Species	Value	Units
Sodium bicarbonate	48 h LC50	Culex sp. larvae	2000	mg/L
		(mosquito)		

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

DOTnot regulatedTDGnot regulatedICAO/IATAnot regulatedIMDG/IMOnot regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Inventory (United States of America)

DSL (Canada)

Complies

NDSL (Canada)

Complies

EINECS/ELINCS (Europe)

ENCS (Japan)

Complies

ECSC (China)

Complies

KECL (Korea)

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PICCS (Philippines) Complies
AICS (Australia) Complies
NZIoC (New Zealand) Complies

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

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.

International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

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16. OTHER INFORMATION

HMIS Health Hazard 0 Flammability 0 Stability 0 Special precautions -

NFPA/HMIS Ratings Legend

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Product Certifications

This product meets the chemical testing specifications defined in the Food Chemicals Codex (FCC), 8th Edition.

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium bicarbonate is 100 mg/L under NSF/ANSI Standard 60.







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Reason for revision: (M)SDS sections updated: 16.

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