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 Formula	Baking Soda, Bicarbonate of Soda NaHCO3
Recommended use:	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, feed additive
Manufacturer	Emergency telephone number
FMC Wyoming Corporation Alkali Chemicals Division	1 307 / 872 2452 (Plant - Green River, WY) 1 303 / 595 9048 (Medical - U.S Call Collect)
1735 Market Street Philadelphia, PA 19103 Tel: +1 215 / 299 6000 E-Mail: msdsinfo@fmc.com	For leak, fire, spill or accident emergencies, call: 1 800 / 424 9300 (CHEMTREC - U.S.A.) 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

Skin Inhalation Ingestion

Chronic Toxicity

Non-irritating. Non-irritating to the skin. Inhalation of dust in high concentration may cause irritation of respiratory system. None under normal use condtions.

No known effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ing	redients
1.11	

Ingredients	CAS-No	Weight %
Chemical Name		100
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

	5.THEFTISHTERE	
Flammable properties	Not flammable.	
Flash Point	Not combustible	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and environment.	the surrounding
Hazardous combustion products	No off odor.	
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Specific hazards arising from the chemical	Not sensitive. Not sensitive. None in particular.	
NFPA Health Hazard 0	Flammability 0 Stability 0 Special Hazard	s -
Personal precautions	6. ACCIDENTAL RELEASE MEASURES Avoid dust formation.	
Methods for containment Methods for cleaning up	Material may be recycled when contamination is not a problem Sweep up and shovel into suitable containers for disposal. Dispose of in a applicable national environmental laws and regulations.	ccordance with all
Handling Storage	7. HANDLING AND STORAGE Use air conveying/mechanical systems for bulk transfer to storage. Provide ventilation at places where dust is formed. In case of insufficient ventilation respiratory equipment if release of airborne dust is expected. Keep in a dry, cool and well-ventilated place. Keep away from heat. Keep 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	Where reasonably practicable this should be achieved by the use of local exhaust ventilation and
Engineering measures	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
Color	white
Physical state	solid
Odor	Odorless
Odor Threshold	Not applicable
	8.3 (1% solution) @ 25 °C
pH	Decomposes
Melting Point/Range	No information available
Freezing point	Not applicable
Boiling Point/Range	Not combustible
Flash Point	Not applicable
Evaporation rate	Not flammable
Flammable properties	No information available
Vapor pressure	Not applicable
Vapor density	0.88 g/cm ³ (particle)
Density	2.22
Specific Gravity	66 lb/cu ft
Bulk density	84.01
Molecular Weight	9.0 % @ 20 °C
Water solubility	No information available
Percent volatile	
Partition coefficient	Not applicable No information available
Viscosity	No information available
Decomposition Temperature	No information available

Decomposition Temperature

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 Remarks

Eye irritation Skin irritation This product is approved for use as a food ingredient and is Generally Recognized as Safe (GRAS).

Non-irritating (rabbit) 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 LC50 Inhalation	No information available 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

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

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
	t regulated

DOT	not regulated
TDG	not regulated
ICAO/IATA	not regulated
IMDG/IMO	not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA Inventory (United States of America)	
DSL (Canada)	
NDSL (Canada)	
EINECS/ELINCS (Europe)	
ENCS (Japan)	
IECSC (China)	
KECL (Korea)	

Complies Complies Complies Complies Complies Complies

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

U.S. Federal Regulations

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	no
Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard	no
	no
	no
	no

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

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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Special precautions -Stability 0 Flammability 0 HMIS Health Hazard 0

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.



American Water Works Association





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