

Material Safety Data Sheet

Sodium Bicarbonate

SDS #: 144-55-8
Revision Date: 2012-12-17
Version 2



1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name	Sodium Bicarbonate
Synonyms	Baking Soda, Bicarbonate of Soda
CAS-No	144-55-8
EC-No	205-633-8
REACH Registration Number	REACH registration ongoing
Pure substance/preparation	Substance:
Formula	NaHCO ₃

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, feed additive
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1.3 Details of the supplier of the safety data sheet

Manufacturer

FMC Wyoming Corporation
Alkali Chemicals Division
1735 Market Street
Philadelphia, PA 19103
Tel: +1 215 / 299 6000
E-Mail: msdsinfo@fmc.com

Contact Point

E-Mail: msdsinfo@fmc.com
Phone: +1 215-299-6000 (General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
+1 703-527-3887 (CHEMTREC)
1 307 / 872 2452 (Plant - Green River, WY)
+1 303 / 595 9048 (Medical - U.S. - Call Collect)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

REGULATION (EC) No 1272/2008

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

The product is non-dangerous in accordance with Directive 1999/45/EC

2.2 Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

2.3 Other information

General Hazards Local nuisance dust standards apply.

3. Composition/information on ingredients**Substance**

Chemical Name	EC-No	CAS-No	EEC Index Number	Weight %	EU - DSD Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Sodium Bicarbonate	205-633-8	144-55-8	205-633-8	100	-		-

4. First aid measures**4.1 Description of first-aid measures**

Skin contact Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye contact Flush eyes with water as a precaution. 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.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed None known

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

None known .

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2 Environmental precautions

Prevent large quantities of this product from contacting vegetation or waterways.

6.3 Methods and materials for containment and cleaning up

Material may be recycled when contamination is not a problem. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with all applicable national environmental laws and regulations.

6.4 Reference to other sections.

See section 13 for disposal information. For personal protection see section 8. Dispose of waste as indicated in Section 13

7. Handling and storage

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep in a dry, cool and well-ventilated place. Keep away from heat. Keep away from incompatible products (acids).

Materials to avoid

Except under controlled conditions: Acids

7.3 Specific end uses

None known

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits

Ingredients with workplace control parameters

Chemical Name	Latvia	Lithuania	Czech Republic
Sodium Bicarbonate 144-55-8	TWA 5 mg/m ³		TWA 5 mg/m ³ Ceiling 10 mg/m ³
Chemical Name	Romania	Bulgaria	Russia
Sodium Bicarbonate 144-55-8			MAC 5 mg/m ³

8.2 Exposure controls**Engineering measures**

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

Personal Protective Equipment**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment.

Eye/face protection

Safety glasses with side-shields.

Skin and body protection

No special precautions required.

Hand protection

No special precautions required

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	crystalline powder
Color	white
Physical state	solid
Odor	odorless
Odor Threshold	not applicable
pH	8.3 (1% solution) @ 25 °C
Flash Point	Not combustible
Melting Point/Range	Decomposes
Freezing point	No information available.
Boiling Point/Range	No information available.
Autoignition Temperature	No information available.
Oxidizing properties	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Density	0.88 g/cm ³ (particle)
Relative density	2.22
Partition coefficient:	No information available.
Water solubility	9.0 % @ 20 °C
Viscosity	No information available.
Evaporation rate	No information available.

9.2 Other information

Bulk density	66 lb/cu ft
Molecular Weight	84.01

10. Stability and reactivity

10.1 Reactivity

None under normal use conditions

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Heat, flames and sparks. Take precautionary measures against static discharges.

10.5 Incompatible Materials

Except under controlled conditions: Acids.

10.6 Hazardous decomposition products

Reacts with acids to release carbon dioxide gas and heat.

11. Toxicological information

11.1 Information on toxicological effects

Acute Toxicity

Product Information.

LD50 Dermal	No information available.
LD50 Oral	20% slurry: 4,300 mg/kg (rat) 50% slurry: 6,000 mg/kg (rat)
LC50 Inhalation:	No information available.

Chronic Toxicity

Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Mutagenicity	This product is not recognized as mutagenic by Research Agencies.
Reproductive toxicity	This product is not recognized as reprotox by Research Agencies

12. Ecological information

12.1 Toxicity

Ecotoxicity effects

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

12.2 Persistence and degradability

Biodegradability does not pertain to inorganic substances. .

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

Dissociates into ions.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not required for inorganic substances.

12.6 Other adverse effects

None known.

13. Disposal considerations**13.1 Waste treatment methods**

Waste from residues / unused products Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR/RID not regulated

IMDG/IMO not regulated

ICAO/IATA not regulated

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Major Accidents (Directive 96/82/CEE)**

not applicable

CWC (Chemical Weapons Convention) - Annex on Chemicals

not applicable

EU Export and import of dangerous chemicals (Regulation (EC) No 304/2003)

Not applicable.

International Inventories

EINECS/ELINCS (Europe) Complies

TSCA Inventory (United States of America) Complies

DSL (Canada) Complies

ENCS (Japan) Complies

IECSC (China) Complies

KECL (Korea) Complies

PICCS (Philippines) Complies

AICS (Australia) Complies

NZIoC (New Zealand) Complies

15.2 Chemical Safety Report

A Chemical Safety Assessment has not yet been completed for this substance.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

Not classified as dangerous.

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

Revision Date: 2012-12-17
Revision Note *** Indicates updated section.

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End of Material Safety Data Sheet