

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/21/2007

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Supersedes: 03/13/2018

Version: 1.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Sodium Bicarbonate
Chemical name	: Sodium Hydrogen Carbonate
CAS-No.	: 144-55-8
Product code	: LC22943
Formula	: NaHCO3
1.2. Recommended use and restric	ctions on use
Use of the substance/mixture	: For laboratory and manufacturing use only.
Recommended use	: Laboratory chemicals
Restrictions on use	: Not for food, drug or household use
1.3. Supplier	
LabChem Inc Jackson's Pointe Commerce Park Building Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	g 1000, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	r
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazard(s) identifica	ation
2.1. Classification of the substanc	
GHS-US classification	
Serious eye damage/eye H320 irritation Category 2B	Causes eye irritation
Full text of H statements : see section 16	
2.2. GHS Label elements, including	g precautionary statements
GHS-US labeling	5 F
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H320 - Causes eve irritation
Precautionary statements (GHS-US)	 P264 - Wash exposed skin thoroughly after handling. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention.
2.3. Other hazards which do not re	
Other hazards not contributing to the	: None.
	. 1010.
classification	
	US)
2.4. Unknown acute toxicity (GHS	US)
2.4. Unknown acute toxicity (GHS Not applicable	
2.4. Unknown acute toxicity (GHS Not applicable SECTION 3: Composition/Inform	
2.4. Unknown acute toxicity (GHS Not applicable SECTION 3: Composition/Inform 3.1. Substances	
2.4. Unknown acute toxicity (GHS Not applicable SECTION 3: Composition/Inform 3.1. Substances	mation on ingredients
2.4. Unknown acute toxicity (GHS Not applicable SECTION 3: Composition/Inform 3.1. Substances Substance type Name Sodium Bicarbonate	mation on ingredients : Mono-constituent
Not applicable SECTION 3: Composition/Inform 3.1. Substances Substance type Name Sodium Bicarbonate (Main constituent)	Product identifier % GHS-US classification (CAS-No.) 144-55-8 100 Eye Irrit. 2B, H320
2.4. Unknown acute toxicity (GHS Not applicable SECTION 3: Composition/Inform 3.1. Substances Substance type Name Sodium Bicarbonate (Main constituent) Full text of hazard classes and H-statement	Product identifier % GHS-US classification (CAS-No.) 144-55-8 100 Eye Irrit. 2B, H320
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SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general :	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
	Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact :	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	(acute and delayed)
Symptoms/effects after eye contact :	Causes eye irritation.
4.3. Immediate medical attention and spec	ial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	•
	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
0 0	Do not use a heavy water stream.
5.2. Specific hazards arising from the cher	nical
No additional information available	
5.3. Special protective equipment and pred	
Firefighting instructions :	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting :	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment :	Safety glasses. Gloves.
Emergency procedures :	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
of the for energency responders	
Protective equipment :	Equip cleanup crew with proper protection.
Protective equipment :	Equip cleanup crew with proper protection. Ventilate area.
Protective equipment :	
Protective equipment : Emergency procedures :	Ventilate area.
Protective equipment : Emergency procedures : 6.2. Environmental precautions	Ventilate area. uthorities if liquid enters sewers or public waters.
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containmental for c	Ventilate area. uthorities if liquid enters sewers or public waters.
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containmental for c	Ventilate area. uthorities if liquid enters sewers or public waters. and cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify a 6.3. Methods and material for containment Methods for cleaning up :	Ventilate area. uthorities if liquid enters sewers or public waters. and cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containment for containment for containment for cleaning up 6.4. Reference to other sections	Ventilate area. uthorities if liquid enters sewers or public waters. and cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containment Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal processing in the section of the section	Ventilate area. uthorities if liquid enters sewers or public waters. and cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containment Methods for cleaning up : 6.4. Reference to other sections See Heading 8. Exposure controls and personal pr SECTION 7: Handling and storage 7.1.	Ventilate area. uthorities if liquid enters sewers or public waters. and cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containment Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and personal prosterior safe handling 7.1. Precautions for safe handling 7.2. Conditions for safe storage, including	Ventilate area. Ventilate area. Uter the tree tree tree tree tree tree tr
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containment Methods for cleaning up : 6.4. Reference to other sections See Heading 8. Exposure controls and personal pr SECTION 7: Handling and storage : 7.1. Precautions for safe handling Precautions for safe handling : 7.2. Conditions for safe storage, including Storage conditions :	Ventilate area. Ventilate area. Uter the tree tree tree tree tree tree tr
Protective equipment : Emergency procedures : 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify at 6.3. Methods and material for containment Methods for cleaning up : 6.4. Reference to other sections See Heading 8. Exposure controls and personal pr SECTION 7: Handling and storage 7.1. Precautions for safe handling : 7.2. Conditions for safe storage, including Storage conditions : Incompatible products :	Ventilate area. Ventilate area. Uter the tree tree tree tree tree tree tr

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.



Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemica	Il properties	
9.1. Information on basic physical and	d chemical properties	
Physical state	: Solid	
Appearance	: Powder.	
Color	: white	
Odor	: None.	
Odor threshold	: No data available	
рН	: 8.3 0.1M solution	
Melting point	: 270 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 2.159 g/cm ³	
Molecular mass	: 84.01 g/mol	
Solubility	: Soluble in water. Water: 6.9 g/100ml	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: >50 ℃	
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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Reacts vigorously with strong oxidizers and acids	S.
10.4. Conditions to avoid	
Moisture. Incompatible materials. High temperatu	ıre.
10.5. Incompatible materials	
Strong acids. Strong oxidizers.	
10.6. Hazardous decomposition products	
Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological informati	
SECTION 11: Toxicological informati 11.1. Information on toxicological effects	
	: Ingestion; Inhalation; Skin and eye contact
11.1. Information on toxicological effects	
11.1. Information on toxicological effects Likely routes of exposure	: Ingestion; Inhalation; Skin and eye contact
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity	: Ingestion; Inhalation; Skin and eye contact
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Bicarbonate (144-55-8)	: Ingestion; Inhalation; Skin and eye contact : Not classified
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Bicarbonate (144-55-8) LD50 oral rat	 Ingestion; Inhalation; Skin and eye contact Not classified 4220 mg/kg
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Bicarbonate (144-55-8) LD50 oral rat ATE US (oral) Skin corrosion/irritation	 Ingestion; Inhalation; Skin and eye contact Not classified 4220 mg/kg 4220 mg/kg body weight Not classified pH: 8.3 0.1M solution
Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Bicarbonate (144-55-8) LD50 oral rat ATE US (oral)	 Ingestion; Inhalation; Skin and eye contact Not classified 4220 mg/kg 4220 mg/kg body weight Not classified pH: 8.3 0.1M solution Causes eye irritation.
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11.1.Information on toxicological effectsLikely routes of exposureAcute toxicitySodium Bicarbonate (144-55-8)LD50 oral ratATE US (oral)Skin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitization	 Ingestion; Inhalation; Skin and eye contact Not classified 4220 mg/kg 4220 mg/kg body weight Not classified pH: 8.3 0.1M solution Causes eye irritation. pH: 8.3 0.1M solution Not classified
11.1. Information on toxicological effects Likely routes of exposure Acute toxicity Sodium Bicarbonate (144-55-8) LD50 oral rat ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	 Ingestion; Inhalation; Skin and eye contact Not classified 4220 mg/kg 4220 mg/kg body weight 1 Not classified pH: 8.3 0.1M solution Causes eye irritation. pH: 8.3 0.1M solution Not classified Not classified Not classified Not classified Not classified
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12.1. Toxicity	
Sodium Bicarbonate (144-55-8)	
LC50 fish 1	8250 - 9000 mg/l
EC50 Daphnia 1	2350 mg/l

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12.2. Persistence and degradability	
Sodium Bicarbonate (144-55-8)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Sodium Bicarbonate (144-55-8)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerations	
13.1. Disposal methods Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
	Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
SECTION 15: Regulatory information	

15.1. US Federal regulations	
Sodium Bicarbonate (144-55-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations	
CANADA	
Sodium Bicarbonate (144-55-8)	
Listed on the Canadian DSL (Domestic Substances List)	
FII-Begulations	

No additional information available

National regulations

Sodium Bicarbonate (144-55-8)

Not listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information	
Revision date	: 03/13/2018
Other information	: None.
Full text of H-phrases: see section 16:	
H320	Causes eye irritation

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection	: E
	E - Safety glasses, Gloves, Dust respirator

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