

# Safety Data Sheet

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

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Version: 1.2

# **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 restrictions 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 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or +1-703-741-5970

### SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

### **GHS US classification**

Serious eye damage/eye irritation Category 2B H320 Causes eye irritation

Full text of H statements: see section 16

# 2.2. GHS Label elements, including precautionary statements

**GHS US labeling** 

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H320 - Causes eye 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 contact

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 result in classification

Other hazards not contributing to the : None.

classification

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
Sodium Bicarbonate (Main constituent)	(CAS-No.) 144-55-8	100	Eye Irrit. 2B, H320

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

09/13/2019 EN (English US) Page 1

# Safety Data Sheet

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

### **SECTION 4: First-aid measures**

### **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 affected person to breathe fresh air. Allow the victim to rest. First-aid measures after inhalation

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 42 Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects after eye contact : Causes eye irritation.

### Immediate medical attention and special treatment, if necessary

No additional information available

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

## Special protective equipment and precautions for fire-fighters

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 measures**

#### 6.1. Personal precautions, protective equipment 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

Protective equipment Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

# **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# Methods and material for containment and cleaning up

: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away Methods for cleaning up

from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

### Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

### Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Keep container closed when not in use.

Incompatible products : Strong oxidizers. Strong acids.

Incompatible materials : Moisture. Heat sources.

09/13/2019 EN (English US) 2/6

# Safety Data Sheet

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

# **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

### Personal protective equipment symbol(s):





### Other information:

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.
Color : white
Odor : None.

Odor threshold : No data available pH : 8.3 0.1M solution

Melting point : 270 °C

Freezing point : No data available Boiling point No data available : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C No data available Relative density : No data available : 2.159 g/cm<sup>3</sup> Specific gravity / density Molecular mass : 84.01 g/mol Soluble in water. Solubility Water: 6.9 g/100ml

Log Pow : No data available
Auto-ignition temperature : No data available

09/13/2019 EN (English US) 3/6

# Safety Data Sheet

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

Decomposition temperature : > 50 °C

Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available **Explosion limits** : Not applicable. Explosive properties

Oxidizing properties : None.

### 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.

### **Conditions to avoid**

Moisture. Incompatible materials. High temperature.

#### 10.5. Incompatible materials

Strong acids. Strong oxidizers.

### **Hazardous decomposition products**

Carbon monoxide. Carbon dioxide.

Sodium Bicarbonate (144-55-8)

# **SECTION 11: Toxicological information**

### Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

LD50 oral rat		4220 mg/kg
ATE US (oral)		4220 mg/kg body w

weight

Skin corrosion/irritation : Not classified

pH: 8.3 0.1M solution : Causes eye irritation. Serious eye damage/irritation

pH: 8.3 0.1M solution

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified Viscosity, kinematic : No data available

Likely routes of exposure : Ingestion. Inhalation. Skin and eye contact.

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects after eye contact : Causes eye irritation.

# **SECTION 12: Ecological information**

### **Toxicity** 12.1.

09/13/2019 EN (English US) 4/6

# Safety Data Sheet

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

Sodium Bicarbonate (144-55-8)	
LC50 fish 1	8250 - 9000 mg/l
EC50 Daphnia 1	2350 mg/l

### 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.

Ecology - waste materials : Avoid release to the environment.

# SECTION 14: Transport information

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

## Transport by sea

Not regulated

# Air transport

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	Health hazard - Serious eye damage or eye irritation

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)

# **EU-Regulations**

No additional information available

09/13/2019 EN (English US) 5/6

# Safety Data Sheet

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

## **National regulations**

No additional information available

## 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**

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

Revision date : 09/13/2019
Other information : None.

Full text of H-phrases: see section 16:

H320	Causes eye irritation
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 fire 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 undergon hazardous polymerization in the absence of inhibitors.
Personal protection	: E
	E - Safety glasses, Gloves, Dust respirator

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09/13/2019 EN (English US) 6/6