

Safety Data Sheet

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

Version: 1.2

Utron Pnarmachemical Co. Date of issue: 02/21/2007 Revision date: 09/13/2019 Supersedes: 03/13/2018

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
 : 1.2010

 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

NEUTRON PHARMACHEMICAL CO

98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.

T 021-66906732-3 - F 021-66581408 info@neutronpharmachemical.com www.neutronpharmachemical.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 125

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

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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.

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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

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/cm³ 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

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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.

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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

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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

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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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