

# Sodium Bicarbonate

## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Identification

**Product name** : Sodium Bicarbonate  
**Product form** : Substance  
**EC number** : 205-633-8  
**CAS-No.** : 144-55-8  
**Formula** : NaHCO<sub>3</sub>

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

**Relevant identified uses** : Laboratory and analytical use  
Laboratory chemical  
**Uses advised against** : Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

#### 1.3. Supplier

FARSA Group Ltd  
[Sales@farsagroup.az](mailto:Sales@farsagroup.az)

#### 1.4. Emergency contacts

**Emergency number** : +994512707856

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/ 2008/EC.

#### 2.2. Label elements

Not required.

#### 2.3. Other hazards

**Results of PBT and vPvB assessment** : According to the results of its assessment, this substance is not a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Identification	%	Classification
Sodium Bicarbonate	CAS No: 144-55-8 EC No: 205-633-8	100%	Eye Irrit. 2B, H320

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

**General notes** : Take off contaminated clothing.  
**Following inhalation** : Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.  
**Following skin contact** : Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.  
**Following eye contact** : Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.  
**Following ingestion** : Rinse mouth. Call a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Irritant effects.

#### 4.3. Indication of any immediate medical attention and special treatment needed

None

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

# Sodium Bicarbonate

## Safety Data Sheet

**Suitable extinguishing media** : Co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)  
**Unsuitable extinguishing media** : Water jet.

### 5.2. Special hazards arising from the substance or mixture

Non-combustible.

**Hazardous combustion products** : In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Control of dust.

### 6.2. Environmental precautions

**Environmental precautions** : Keep away from drains, surface and ground water.

### 6.3. Methods and materials for containment and cleaning up

**Advice on how to contain a spill** : Covering of drains. Take up mechanically.

**Advice on how to clean up a spill** : Take up mechanically.

**Other information relating to spills and releases** : Place in appropriate containers for disposal.

### 6.4. Reference to other section

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

No special measures are necessary.

**Advice on general occupational hygiene** : Keep away from food, drink and animal feeding stuffs.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place.

**Incompatible substances or mixtures** : Observe hints for combined storage.

**Ventilation requirements** : Use local and general ventilation.

**Specific designs for storage rooms or vessels** : Recommended storage temperature: 15 – 25 °C

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

This information is not available.

### 8.2. Exposure controls

**Eye/face protection**



Use safety goggle with side protection.

**Skin protection**



**Hand protection:** Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

**Other protection measures:** Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

**Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles).

**Environmental exposure controls**

: Keep away from drains, surface and ground water.

# Sodium Bicarbonate

## Safety Data Sheet

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Solid, powder (crystalline)	<b>Decomposition temperature</b>	165 °C at 97,3 kPa
<b>Colour</b>	White	<b>Kinematic viscosity</b>	Not relevant
<b>Odour</b>	Odourless	<b>Water solubility</b>	93,4 g/l at 20 °C
<b>pH</b>	8,4 – 8,6 (in aqueous solution: 50 g/l, 20 °C)	<b>Partition coefficient n-octanol/water (log value)</b>	-4,01 (TOXNET) not relevant (inorganic)
<b>Melting/freezing point</b>	>500 °C at 97,3 kPa	<b>Vapour pressure</b>	66,9 Pa at 20 °C
<b>Initial boiling point/range</b>	Not determined	<b>Density</b>	2,21 g/cm <sup>3</sup> at 20 °C
<b>Flammability</b>	Non-combustible	<b>Relative vapour density</b>	Information not available
<b>Lower/upper explosion limit</b>	Not determined	<b>Bulk density</b>	~1.000 kg/m <sup>3</sup>
<b>Flash point</b>	Not applicable	<b>Particle characteristics</b>	No data available
<b>Auto-ignition temperature</b>	Not determined	<b>Oxidising properties</b>	None

#### 9.2. Other information

Other information not available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3. Possibility of hazardous reaction

Violent reaction with: strong acid

#### 10.4. Conditions to avoid

Keep away from heat. Decomposition takes place from temperatures above: 165 °C at 97,3 kPa.

#### 10.5. Incompatible materials

There is no additional information.

#### 10.6. Hazardous decomposition products

Hazardous combustion products: see section 5

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

**Acute toxicity** : Shall not be classified as acutely toxic.

Acute toxicity				
Exposure route	Endpoint	Value	Species	Source
Oral	LD50	>4.000 mg/kg	Rat	ECHA

**Skin corrosion/irritation** : Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation** : Shall not be classified as seriously damaging to the eye or eye irritant.

**Respiratory or skin sensitisation** : Shall not be classified as a respiratory or skin sensitizer.

**Germ cell mutagenicity** : Shall not be classified as germ cell mutagenic.

**Carcinogenicity** : Shall not be classified as carcinogenic.

**Reproductive toxicity** : Shall not be classified as a reproductive toxicant.

**STOT - single exposure** : Shall not be classified as a specific target organ toxicant (single exposure).

**STOT - repeated exposure** : Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard** : Shall not be classified as presenting an aspiration hazard.

#### 11.2. Endocrine disrupting properties

None of the ingredients are listed.

#### 11.3. Information on other hazards

There is no additional information.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	7.100 mg/l	bluegill	ECHA	96 h
EC50	4.100 mg/l	daphnia magna	ECHA	48 h

**Biodegradation** : The methods for determining the biological degradability are not applicable to inorganic substances.

# Sodium Bicarbonate

## Safety Data Sheet

### 12.2. Persistence and degradability

Theoretical Oxygen Demand: -0,09522 mg/mg  
Theoretical Carbon Dioxide: 0,5239 mg/mg

### 12.3. Bioaccumulative potential

Does not significantly accumulate in organisms.

### 12.4. Mobility in soil

Data are not available.

### 12.5. Results of PBT and vPvB assessment

Data are not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

**Sewage disposal-relevant information** : Do not empty into drains.

### 13.2. Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance.

### 13.3. Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1. UN number

Not subject to transport regulations.

### 14.2. UN proper shipping name

Not assigned.

### 14.3. Transport hazard class(es)

None.

### 14.4. Packing group

Not assigned.

### 14.5. Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6. Special precautions for user

There is no additional information.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions according to REACH, Annex XVII

Not listed.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

#### National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# Sodium Bicarbonate

## Safety Data Sheet

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### SECTION 16: Other information

Other information is not available.

#### **Disclaimer:**

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