

# Material Safety Data Sheet

## SODIUM BICARBONATE

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name: **Sodium bicarbonate**

Brand: Zumrut Kimya

CAS-No: 144-55-8

EC-No: 205-633-8

#### 1.2 Details of the supplier of the safety data sheet

Company: Zumrut International Kimya

Telephone: +90 312 5444581

Fax: ---

E-mail: [info@zumrut-int.com](mailto:info@zumrut-int.com)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms : Sodium hydrogen carbonate

Formula :  $\text{CHNaO}_3$

Molecular Weight : 84.01 g/mol

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No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

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### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

 No data available

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### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Sodium oxides

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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### 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.

#### 6.2 Environmental precautions

Environmental precautions Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

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

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Avoid generation and spreading of dust. Small Spillages: Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Large Spillages: Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralize with acid. Caution. May generate heat. Following dilution and neutralization, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 6.4 6.4. Reference to other sections

Reference to other sections for personal protection, see Section 8.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.  
Keep in a dry place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

Protective equipment

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Appropriate engineering controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn:

Hand protection

Dust resistant, chemical splash goggles.  
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection  
Hygiene measures

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.  
Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. Wear a suitable dust mask.

Not regarded as dangerous for the environment

Environmental exposure controls

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance powder
- b) Color white

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- c) pH 8.2 (5%)
- d) Purity 99.0%
- e) Melting point Decomposes to sodium carbonate starting at 80 °C
- f) Relative density 2.16 - 2.2 g/cm<sup>3</sup>
- g) Water solubility 9.6 g/ 100ml in water (20° C)
- h) Initial boiling point and no data available boiling range
- i) Flash points no data available
- j) Flash points no data available
- k) Evaporation rate no data available
- l) Flammability (solid, gas) no data available
- m) Upper/lower no data available flammability or explosive limits
- n) Vapour pressure no data available
- o) Vapour density no data available
- p) Viscosity no data available
- q) Viscosity no data available
- r) Oxidizing properties no data available

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## 10. STABILITY AND REACTIVITY

### 10-1 Reactivity

Reactivity There are no known reactivity hazards associated with this product.

### 10-2 Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

### 10-3 Possibility of hazardous reactions

Possibility of hazardous No potentially hazardous reactions known. Reactions

### 10-4 Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

### 10-5 Incompatible materials

Materials to avoid Acid anhydrides. Acids. Phenols, cresols.

### 10-6 Hazardous decomposition products

Hazardous decomposition Does not decompose when used and stored as recommended. Thermal decomposition or products combustion products may include the following substances: Harmful gases or vapors.

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### 11. TOXICOLOGICAL INFORMATION

#### 11-1 Information on toxicological effects Acute

##### **toxicity**

LD50 Oral - rat - 4,220 mg/kg

Inhalation: no data

available Dermal: no data

available

##### **Skin corrosion/irritation**

Skin - Human

Result: Mild skin irritation - 3 d

##### **Serious eye damage/eye irritation**

Eyes - rabbit

Result: Mild eye irritation - 30 s

##### **Respiratory or skin**

**sensitization** no data available

##### **Germ cell mutagenicity**

no data

available

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity** no data available

**Specific target organ toxicity - single exposure** no data available

**Specific target organ toxicity - repeated exposure** no data available

**Aspiration hazards** no data available

#### **Additional Information**

RTECS: VZ0950000

Exposure to large amounts can cause: Gastrointestinal disturbance, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material.

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**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity** no data available

**12.2 Persistence and degradability** no data available

**12.3 Bio accumulative potential** no data available

**12.4 Mobility in soil** no data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects:** no data available

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**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

**LABELING:**

**PHRASES R:**

Not classified as hazardous or toxic to users.

**PHRASES S:**

Not classified as hazardous or toxic to users.

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### 16. OTHER INFORMATION

#### HMIS Rating

Health hazard: 0  
Chronic Health Hazard:  
Flammability: 0  
Physical Hazard: 0

#### NFPA Rating

Health hazard: 0  
Fire Hazard: 0  
Reactivity Hazard: 0  
SDS status Approved.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Preparation Information  
Zumrut International  
Kimya Co,