

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 1 / 14

## SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/PLANT

- 1.1. Product ID**
- Chemical name (IUPAC name):** Sodium Hydrogen Carbonate  
**Synonyms:** Bicarbonate of soda, sodium bicarbonate  
**CAS number:** 144-55-8  
**EC number:** 205-633-8  
**Chemical formula:** NaHCO<sub>3</sub>  
**REACH Registration No:** 01-2119457606-32-0019
- 1.2. Relevant identified uses of the substance/mixture and uses advised against**
- Scope of application:  
For purification of exhaust gases, production of cleaning agents, as a technological additive to metals and in the metallurgical industry, in wood-pulp and paper industry, other industry references, professional use, use by consumers (end users).
- Overview of the descriptors of identified usage presented in Annex 1 to this Certificate.
- Uses advised against not identified.
- Exposure assessment is not required because sodium hydrogen carbonate is not classified according to the EU Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC) no. 1272/2008. In this connection, an overview of exposure scenarios is not required.
- 1.3. Details for suppliers which is provided with the Safety Certificate**
- Manufacturer:**  
Joint Stock Company "Bashkir Soda Company" (JSC "BSC")  
**Contact address:**  
JSC "BSC", 32, Tekhnicheskaya str., Sterlitamak,  
453122, Russia,  
Phone: (3473) 29-57-22,  
Fax: (3473) 29-51-43 ex. 27-05  
E-mail: [Matalinova.EG@soda.ru](mailto:Matalinova.EG@soda.ru)
- Person responsible in EC:** Vladimir Khodyrev  
[E-mail: vovets\\_uk@list.ru](mailto:vovets_uk@list.ru)  
**Special representative** Kaustik Europe B.V.  
**Postal address:**  
Kaustik Europe B.V. Wijnhaven 3L 3011 WG, Rotterdam the Netherlands
- 1.4. Emergency number**
- (3473) 29-76-09 – help desk

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 2/ 14

## SECTION 2: HAZARD IDENTIFICATION

**2.1. Classification of substance or mixture**      **GHS:** not classified;  
**PBT:** not classified.

Sodium Hydrogen Carbonate currently is not listed in Annex VI EU Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No 1272/2008. Based on available actual data of physical hazards, health hazards, environmental hazards, sodium hydrogen carbonate is not classified according to CLP Regulation.

**2.2. Label elements**

### **Globally Harmonized System (GHS)**

Safety marking of health hazards and environmental hazards are not required by GHS criteria.

Sodium hydrogen carbonate currently is not listed in Annex VI EU Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No 1272/2008.

Based on available actual data of physical hazards, health hazards, environmental hazards, sodium hydrogen carbonate does not need labeling in accordance with the CLP.

In this connection, H-phrases and R-phrases are absent.

**2.3. Other potential hazards**

There is no risks if comply with requirements for the storage and use of the product. Sodium hydrogen carbonate causes irritation in contact with mucous membranes. Regular work in an atmosphere contaminated with sodium bicarbonate dust causes irritation of the respiratory tract.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

**3.1. Substances**

**Sodium hydrogen carbonate**

Assay: more than 99,6 %

CAS number: 144-55-8

EC number: 205-633-8

Not classified according to Regulation No 1272/2008.

### **Note:**

- concentration of components is indicated on the dried basis;
- impurities having concentration less than 1,0 % are not indicated.

**3.2. Mixtures**

Not applicable

## SECTION 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

### **Inhalation:**

- rest, fresh air;

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 3/ 14

### Eye contact:

- Flush with running water at least 15 minutes.

### Skin contact:

- Wash with soap and water.

### Ingestion:

- Rinse mouth and drink lots of water.

#### 4.2. The most important acute and delayed symptoms and after-effects

Particular reactions of the human body to the product are still unknown.

#### 4.3. Data for urgent medical assistance and special treatment required in this case

Treatment: Symptomatic treatment (deactivation).

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing Media

Determine the fire fighting measures of surrounding areas.  
Water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

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

No particular risks are known.

### 5.3. Instructions for fire extinguishing

Special protective equipment:  
Wear self-contained breathing apparatus.

#### Additional information:

The product is non-flammable, fire- and explosion-proof;  
Determine the fire fighting measures of surrounding materials.  
Residues after the fire and contaminated water used to extinguish the fire should be disposed of in accordance with the regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personnel safety precautions, protective equipment and emergency actions

Avoid formation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothing. Use personal protective clothing.

Refer to Section 8 for information on personal chemical protection equipment.

### 6.2. Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Prevent any mixing with acid during flushing into the sewer / spill (formation of gas).

### 6.3. Cleanup Procedures

Avoid formation of dust. Collect spillage mechanically. Dispose of the adsorbed material in accordance with the regulations.

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 4/ 14

**6.4. Links to other sections** Information on exposure restriction and control / personal protective equipment and disposal are found in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions on safe handling** Avoid formation of dust. Avoid breathing dust. Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation at the processing facilities.  
Keep away from incompatible products.

Provision of fire and explosion safety:  
The product does not promote the spread of fire, is not self-igniting or explosive.

**7.2. Conditions for safe storage, considering the incompatibility of products** Suitable materials for packaging: low density polyethylene, high density polyethylene, paper.  
Store in a tightly closed container in a well ventilated area.  
Unsuitable packaging materials:  
- no data available

**7.3. Specific areas of end use** No information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL CHEMICAL PROTECTION

**8.1. Control Parameters** The maximum permissible concentration (MPC) of sodium hydrogen carbonate in the air of working zone is  $5 \text{ mg/m}^3$  (aerosol).

### Permissible Exposure Limits:

#### Derived No-Effect Level - DNEL(s)

DNEL<sub>acute</sub> - not considered necessary;  
DNEL<sub>long term</sub> - not considered necessary;  
DNEL<sub>local for oral exposure</sub> - not considered necessary;  
DNEL<sub>local for dermal exposure</sub> - not considered necessary;  
DNEL<sub>acute local during inhalation</sub> - not considered necessary;  
DNEL<sub>long term, local during inhalation</sub> - not considered necessary;  
DNEL<sub>eye exposure</sub> - not considered necessary.

### Predicted No-Effect Concentrations (PNEC)

PNEC<sub>residue</sub> - not considered necessary;  
PNEC<sub>soil</sub> - not considered necessary;  
PNEC<sub>atmospheric air</sub> - not considered necessary;  
PNEC<sub>STR</sub> - not considered necessary;  
PNEC<sub>STP-added</sub> - not considered necessary;  
PNEC<sub>oral (secondary infection)</sub> - not considered necessary.

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended,  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 5/ 14

## 8.2. Exposure Controls

Respiratory protection:  
Respiratory protection in case of dust formation: breathing mask with steam filter (EN 141), recommended filter type P2.

Hand Protection:  
Protective gloves resistant to chemicals (EN 374).

Eye protection:  
Goggles with side protection (framed) (EN 166).

Safety clothing:  
No body protection is required if used for its intended purpose and the generally accepted rules of industrial hygiene are observed.

**Environmental impact control:**  
Refer to Section 12 for information on environmental control.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Physical state:** solid.  
**Appearance:** crystal powder or microgranules.  
**Color:** white.  
**Odor:** no odor.  
**Odor threshold:** not applicable. Does not smell.  
**pH:** 8,4 (93,4 g/l water solution @ 20<sup>0</sup>C).  
**Substance type:** inorganic.  
**Melting/freezing point:** Not determined.  
**Initial boiling point and boiling range:** Not determined.  
**Flash point:** Not applicable (solid substance).  
**Evaporation rate:** Not applicable.  
**Flammability:** nonflammable.  
**Explosion limits:**  
- upper limit: Not applicable (explosion-proof),  
- lower limit: Not applicable (explosion-proof).  
**Vapour pressure:** Not applicable (solid substance).  
**Vapour density:** Not applicable (solid substance).  
**Relative density:** 2.21-2.23 g/cm<sup>3</sup> @ 20<sup>0</sup>C.  
**Water solubility:** 93.4 g/l @ 20<sup>0</sup>C.  
**Partition Coefficient n-Octanol/Water (log KOW)** -4,01 (TOXNET).  
**Autoignition temperature:** Not applicable.  
**Decomposition temperature:** >50 °C.  
**Viscosity:** Not applicable (solid substance).  
**Explosion hazard:** None (explosion-proof).  
**Oxidation properties:** Not oxidized (weak alkali).

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 6/ 14

---

Bulk density (avg) 0,9 g/cm<sup>3</sup>  
Heat of dissolution: 48,8 ccal/kg  
Specific heat capacity: 0,249 ccal/kg·degree

## 9.2. Additional Information

Sodium bicarbonate is evaluated in the context of the Hazards Assessment Program for Large-Scale Chemicals (OECD, 2002). The substance quality assessment published in the United Nations Environment Program (UNEP) is included in the Chemical Safety Report.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	Does not react under normal environmental conditions. Not compatible with acids. Slowly decomposes in water.
<b>10.2. Chemical Stability</b>	Chemically stable
<b>10.3. Possibility of Hazardous Reactions</b>	Hazardous interaction reactions are unknown.
<b>10.4. Conditions to Avoid</b>	Avoid exposure to humidity. Keep away from heat sources. Decomposition follows at temperatures > 50 ° C.
<b>10.5. Incompatible Materials</b>	Incompatible with acids.
<b>10.6. Hazardous Decomposition Products</b>	Hazardous decomposition products are unknown

## SECTION 11: TOXICOLOGY INFORMATION

### Toxicokinetics

The main extracellular buffer in the blood and intermediary liquid of vertebrates is the bicarbonate buffer system described by the following equation:



Carbon dioxide from tissues quickly spreads into red blood cells, where it hydrates with water and forms carbonic acid. The resulting carbonic acid decomposes into bicarbonate and hydrogen ions. Most of the bicarbonate ions diffuse into the plasma. Since the ratio of H<sub>2</sub>CO<sub>3</sub> to dissolved CO<sub>2</sub> is constant in equilibrium, the pH can be expressed as the concentration of bicarbonate ions and the partial pressure of CO<sub>2</sub> by means of the Henderson-Hasselbach equation:

$$\text{pH factor} = \text{pk} + \log [\text{HCO}_3^-]/\text{aPCO}_2.$$

Human plasma usually has a pH of 7.40. If the pH falls below 7.0 or rises above 7.8, irreversible damage can occur. Compensatory

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 7/ 14

---

mechanisms for acid-alkaline disorders function to change the  $\text{HCO}_3^- / \text{PCO}_2$  ratio, returning the blood pH to normal. Thus, metabolic acidosis can give  $\text{HCO}_3^-$  compensated by hyperventilation and by increased kidney absorption. Metabolic alkalosis (alkaline intoxication) can be compensated by hyperventilation and excess  $\text{HCO}_3^-$  in urine. Renal mechanisms are usually sufficient to restore the acid-base balance. Fixing of sodium by stimulation of sodium bicarbonate is much less than the absorption of sodium through food. Therefore, sodium bicarbonate will not be systematically present in the body. In addition, you need to realize that the taking of sodium bicarbonate will lead to neutralization in the stomach due to gastric acid.

## 11.1. Information on toxic effect

### Toxicity

Not toxic for single oral intake.  
Acute toxicity: oral  $\text{LD}_{50} = 4200$  mg/kg, rats.  
Not toxic if inhaled once.  
Not toxic in case of single skin contact.

### Irritant effect.

Skin irritation: Slightly irritating. The effects are completely reversible. (Rabbits).  
Not classified as corrosive / skin irritant.  
Eye irritation: Not classified as a serious eye irritant. (Rabbits)  
Respiratory or skin sensitization: Not classified as respiratory irritant or skin allergen.

### Mutagenicity of germ cells.

Not classified as a germ cell mutagen.

### Carcinogenicity.

Not classified as a carcinogen.

### Reproductive toxicity.

Not classified as a toxin for reproduction.

### Teratogenic effect.

Based on the available data, the classification criteria are not applied.

### Gonadotropic effect.

Based on the available data, the classification criteria are not applied.

### Risk of aspiration.

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 8/ 14

Not classified as hazardous by inhalation.

## Symptoms associated with physical, chemical and toxicological characteristics:

- if swallowed: no data;
- In case of contact with eyes: slightly irritating;
- After inhalation: After inhalation of dust, irritation of the respiratory tract may occur.
- After contact with skin: frequent and prolonged contact with skin may cause mild skin irritation.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1. Ecotoxicity</b>	Assessment of aquatic toxicity: Not highly hazardous for aquatic organisms. (EU Regulation 1272/2008)  Toxicity to fish: CL <sub>100</sub> (24-48) 10000 mg/l Salino (EU source) CL <sub>50</sub> (96) 8250-9000 Centrarchadae  Toxicity (acute) for invertebrates: L (E) C <sub>50</sub> > 100 mg/l, (48 hours EC <sub>50</sub> with Daphnia magna (magna) -3100 mg/l).  Toxicity (chronic) for invertebrates: NOEC> 0.1 mg/l, (21-day NOEC with Daphnia Magna (magna)> 576 mg/l).  Toxicity to aquatic algae and cyanobacteria: (5-day Nitzschia Linearis W. Sm. EC <sub>50</sub> > 650 mg/l)
<b>12.2. Persistence and Degradability</b>	Methods for determination of biodegradability are not applicable to inorganic substances.
<b>12.3. Bioaccumulation Potential</b>	Not determined
<b>12.4. Variability in soil</b>	Not determined
<b>12.5. Evaluation of PBT and vPvB</b>	According to Annex XIII of the REACH Regulation, inorganic substances should not be evaluated by PBT or vPvB.
<b>12.6. Other Adverse Effects</b>	Not determined



# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended,  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 9/ 14

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1. Waste Processing/Treatment Methods</b>	<p>Methods of waste disposal: Contact waste disposal services. If reuse is not feasible, dispose it in accordance with national, state or local regulations.</p> <p>Contaminated packaging: Recycling is preferable to disposal or incineration (if possible). Wash containers for storage with water. Ensure flushing water in accordance with local and national instructions / regulations. Contaminated packaging should be burned at an appropriate incineration plant for which a license is obtained from the competent authorities.</p>
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## SECTION 14: TRANSPORTATION INFORMATION

<b>14.1. UN number</b>	Not applicable. The product is not dangerous goods.
<b>14.2. Shipping Name</b>	Sodium Bicarbonate
<b>14.3. Transport Hazard Class</b>	<p><u>Land Transportation</u> ADR / RID - not classified</p> <p><u>River Transportation</u> AND (R) - not classified</p> <p><u>Sea Transportation</u> IMDG - not classified</p> <p><u>Air Transportation</u> ICAO / IATA - not classified</p>
<b>14.4. Packaging Group</b>	Not controlled
<b>14.5. Environmental Hazard</b>	None (non-hazardous to the environment in accordance with the Technical Regulations)
<b>14.6. Special precautions for user</b>	No additional information.
<b>14.7. Transportation in bulk in accordance with the Annex II MARPOL 73/78 and International Code for Transportation of Dangerous Chemicals In Bulk (IBC)</b>	Not controlled

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended,  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 10/ 14

## SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, Health and Environment / Legislation specific for the substance or mixture** Material safety data sheet has been prepared taking into account the requirements of the following international and national laws:  
REACH Regulation 1907/2006 / EC,  
CLP Regulation (EC) No 1272/2008 / EC,  
Directive 98/24 / EC,  
Directive 2000/39 / EC,  
Directive 2008/98 / EC.
- 15.2. Chemical Safety Assessment** The chemical safety assessment was carried out for this substance.

## SECTION 16: OTHER INFORMATION

- a Information on changes made to the safety data sheet** The Material Safety Data Sheet (version 3) has been revised in accordance with Annex II as amended by Regulation (EC) No. EC 2015/830.  
Section headings are renamed in accordance with Regulation EC No. 830/2015.  
**Clause 1.3.** "Technical function of the substance" is deleted.  
**Section 1 clause 1.3** "Detailed information for suppliers to whom the safety data sheet is provided". Changes were made in the name and contact information of the manufacturer.
- Changes have been made to the legal address of the Special Deputy in the EU countries.  
**Section 2.** Classification and labeling in accordance with DSD is deleted (canceled).  
**Clause 9.1.** Information is adjusted in accordance with Regulation EC № 830/2015.  
**Section 15.** All regulatory documents are specified  
**Section 16 (c)** "Main References" Supplemented with references to information sources.

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended,  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 11/ 14

## b Acronyms and Abbreviations

IUPAC name	This is a unique name assigned to a chemical from among the possible names generated by the IUPAC nomenclature.
CAS	Chemical Abstracts Service (a service that supports the most comprehensive list of chemicals)
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
GHS	Globally Harmonized System of Classification and Labelling of Chemicals, developed by the United Nations Organization
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
LD <sub>50</sub>	The average lethal dose of toxic substance needed to kill half the members of the test population. One of the most widely used indicators of the danger of toxic and moderately toxic substances.
LD50	Average lethal concentration mg/ml, causing death in 50% of objects exposed to a toxicant
NOEC	The maximum inactive concentration of a substance (no observed effect concentration) is the maximum concentration of a substance found experimentally or by observation which does not lead to changes in morphology, functionality, growth, development; absence of a statically significant effect in the group of organisms under study with respect to a reference group being in a normal habitat.
PBT	Persistence, Bioaccumulation, And Toxicity
vPvB	Very Persistent And Very Bioaccumulative
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
GOST 12.1.005-88	Occupational safety standards system General sanitary and hygienic requirements for the air of the working area
PDK <sub>ss</sub>	The average daily maximum permissible concentration of harmful substance in the air of populated areas in mg/m <sup>3</sup> .

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended,  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 12/ 14

## c Main References

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of the European Union of 16 December 2008, concerning the rules for classification, labeling and packaging of substances and mixtures, the amendment and cancellation of Directives 67/548 / EEC and 1999/45 / EC, and amendments to Regulation (EC) No 1907/2006.

2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of the European Union of December 18, 2006 concerning the rules of registration, assessment, authorization and restriction of chemicals (REACH), the establishment of the European Chemicals Agency.

3. Regulation (EC) No 2015/830 Annex II to Regulation (EC) No 1907/2006 establishes the requirements for the preparation of safety data sheets.

4. European Commission Directive 2000/39 / EC establishing the first list of indicative workplace exposure limit values at the level of the European Community in implementation.

5. Council Directive 98/24 / EC on the protection of the health and safety of workers against the risks associated with working with chemicals.

6. Directive 2008/98 / EC of the European Parliament and of the Council of 19 November 2008 on waste.

7. EN 374-1:2003 "Protective gloves against chemicals and micro-organisms - Part 1: Terminology and performance requirements"

8. EN 374-2:2003 "Protective gloves against chemicals and micro-organisms - Part 2: Determination of resistance to penetration"

9. EN 374-3:2003 "Protective gloves against chemicals and micro-organisms - Part 3: Determination of resistance to permeation by chemicals".

10. EN 166-2002 Personal eyes protection - General specifications (MOD)

11. Chemical safety report - Sodium carbonate JSC «Soda» (Of the 20<sup>th</sup> of September 2010).

12. <https://echa.europa.eu/registration-dossier/-/registered-dossier/16157/2/1>.

13. OECD SIDS SODIUM BICARBONATE SIDS Initial Assessment Report For SIAM 15 (Boston, USA, 22-25 October 2002)

<http://www.curenaturalinc.com/pdf/sodium-bicarbonate.pdf>

### **Russian Legislation:**

14. GOST 2156-76 Sodium bicarbonate. Technical specification.

15. GOST 12.1.005-88 SSBT. General sanitary and hygienic requirements for the air of the working area

## Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended,  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 13/ 14

16. GOST 12.1.007-76 SSBT. Harmful substances.  
Classification and general safety requirements.

17. SanPiN 2.1.6.1032-01. Hygienic requirements for the  
location and neutralization of production and consumption wastes.

18. Rules for transportation of dangerous goods by rail.  
Approved by the Council for Rail Transport of the Commonwealth  
Member States, Minutes No. 15 of 05.04.1996.

**e Recommendations for using  
the information contained in  
the safety data sheet**

The Safety Data Sheet has been prepared in accordance with  
Article 31 and Annex II of the EU REACH Resolution, the EU  
Regulation CLP.

Responsible persons receiving this Safety Data Sheet must  
ensure that persons using, processing, disposing or otherwise  
contacting the product have read and correctly understood the  
information contained herein. If the recipient eventually  
manufactures a formulation containing this product, only the  
recipient shall be responsible for transferring all relevant  
information from this Safety Data Sheet to a Safety Data Sheet for  
their own product.

As stated above, this Safety Data Sheet has been prepared in  
accordance with applicable European legislation. If you purchase  
this product outside of Europe where compliance laws may differ,  
you must obtain a Safety Data Sheet valid for the country in which  
the product is sold or where it is intended to be used from your local  
supplier. Please note that the appearance and content of a Safety  
Data Sheet, even for the same product, may vary from country to  
country, reflecting various requirements for regulatory compliance.

**f Recommendations for  
Instructions**

Before using the product, read the Material Safety Data Sheet

# Safety Certificate

according to Regulation (EC) No 1907/2006 (REACH),  
as amended (Annex II, as amended),  
according to Regulation (EC) No EC 2015/830)



Product: **Sodium Hydrogen Carbonate**

Version 3  
Date of preparation: 18.05.2018  
Issue date: 2018  
Page 14/ 14

## Annex 1

### Descriptors of identified use

No. of identified use	Identified use	Sector of Use (SoU)	Product Category (PC)	Process Category (PROC)	Article Category (AC)	Environmental Release Category (ERC)
Industrial use						
1	Flue gas cleaning	SU 0, 2a, 2b, 4, 5, 6a, 6b, 8, 9, 11-15, 18, 20, 23	PC 19, 20	PROC 02, 08b, 15, 22	Not applicable	ERC06b
2	Manufacture of cleaning agents	SU10	PC 35	PROC 1-5, 8a, 8b, 9, 14, 15	Not applicable	ERC2
3	Processing additive to metals and in the metallurgical industry	SU02a	PC 19, 20	PROC 08b, 26	Not applicable	ERC06a, 06b
4	Pulp and paper production	SU06b	PC 19, 20	PROC 1-5, 08b, 15	Not applicable	ERC 01, 04, 06a, 06b
5	Other industrial use	SU 0-24	PC 0-40	PROC 1-27b	Not applicable	ERC 01-12b
Professional use						
6	Professional applications	SU22, SU 1, 4, 5, 6a, 7, 10, 18, 19, 20, 23, 24	PC 0-40	PROC 1-27b	Not applicable	ERC 2, 3, 8a-11b
Consumer use						
7	End user applications	SU21	PC 0-40	Not applicable	Not applicable	ERC 2, 3, 8a-11b