







This is to certify that



# Joint Stock Company Bashkir soda company

Tekhnicheskaya str., 32 453110 Sterlitamak Republic of Bashkortostan Russian Federation

has implemented and maintains a Quality Management System.

#### Scope:

Production and supply of chemical products, including basic inorganic substances (caustic soda, sodium carbonate, chlorine); power gas; plastics and synthetic resin in primary forms (polyvinyl chloride, soft cable compound) and other organic and inorganic chemical products

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001: 2015

Certificate registration no. 508367 QM15 Valid from 2019-08-05

Valid until 2022-08-04

Date of certification 2019-08-05



**DQS GmbH** 

Markus Bleher Managing Director







# CERTIFICATE



This is to certify that



# Joint Stock Company Bashkir soda company

Tekhnicheskaya str., 32 453110 Sterlitamak Republic of Bashkortostan Russian Federation

has implemented and maintains an

Occupational Health and Safety Management System.

#### Scope:

Development, production and sale of caustic soda and chlorine, chlorinated organic and inorganic compounds, polyvinyl chloride and PVC-containing products, sodium carbonate, sodium bicarbonate, calcium chloride, sodium chloride, calcium and sodium compounds with other salts, as well as their solutions, precipitated silica and packing materials

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

BS OHSAS 18001: 2007

Certificate registration no. 508367 BSOH

Valid from 2018-08-02

Valid until 2021-03-11

Date of certification 2018-08-02

DAKKS

Deutsche
Akkreditierungsstelle
D-ZM-16074-01-00

DQS GmbH

Stefan Heich

Stefan Heinloth Managing Director









### **Certificate of Conformity**

Kiwa Agri Food certifies that

JSC "BSC"

complies with the requirements of the following scheme:

### **FEMAS**

Feed Materials Assurance Scheme: May 2013

#### Site Address(es)

32 Tekhnicheskaya Street REPUBLIC OF BASHKORTOSTAN Russian Federation 453110

#### **Scope of Operation**

The production and sale of sodium bicarbonate for use in animal feeds.

Kiwa Agri Food

**Authorised Signatory** 

Expiry Date:

31/07/2021

Member No

54004

Certificate No:

80125

Certificate Issue:

191000-1

Valid From:

27/07/2018

Original Issue:

03/07/2015

Kiwa Agri Food is a trading name of Kiwa Ltd







#### THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

DQS Holding GmbH has issued an IQNet recognized certificate that the organization

# Joint Stock Company Bashkir soda company

Tekhnicheskaya str., 32 453110 Sterlitamak Republic of Bashkortostan Russian Federation

has implemented and maintains an Occupational Health and Safety Management System.

#### Scope:

Development, production and sale of caustic soda and chlorine, chlorinated organic and inorganic compounds, polyvinyl chloride and PVC-containing products, sodium carbonate, sodium bicarbonate, calcium chloride, sodium chloride, calcium and sodium compounds with other salts, as well as their solutions, precipitated silica and packing materials

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

BS OHSAS 18001: 2007

Issued on:

2018-08-02

Expires on:

2021-03-11

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document.

Registration number: DE-508367 BSOH



Alex Stoichitoiu President of IQNet Michael Drechsel Managing Director of DQS Holding GmbH



#### IQNet Partners\*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany FCAV Brazil
FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertificiniti Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

<sup>\*</sup> The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



# ROSSTANDART VOLUNTARY CERTIFICATION SYSTEM «QUALITY AND SAFETY SYSTEMS FOR FOOD AND PHARMACEUTICAL PRODUCTS»

№ POCC RU.0001.03СД01

#### **CERTIFICATION BODY**

#### SYSTEMS OF QUALITY AND SAFETY OF FOOD PRODUCTS

FBI "CSM in the Republic of Bashkortostan"

450006, boulevard Ibragimova, 82, Ufa

10299

#### CERTIFICATE OF CONFORMITY

is issued to Joint-stock company "Bashkir Soda Company". Russia, 453110, Republic of Bashkortostan, Sterlitamak, 32 Tekhnicheskaya str.

#### THIS CERTIFICATE CERTIFIES THAT

safety management system in respect to production of the food additive sodium hydrogen carbonate E500 (ii)

### COMPLIES WITH THE REQUIREMENTS OF

GOST R ISO 22000-2007 (ISO 22000 : 2005), Custom Union GOST R ISO 22000-2007 and technical regulations of the Customs Union TR CU 021/2011 "On food safety" Chapter 3, articles 10-19, Custom Union TR TS 029/2012 "Safety requirements of food additives, flavoring agents and technological processing aids"

It is valid until 2022, September, 17

**Head of Certification Body** 

Audit team leader

R.I.Amirova

N.A.Sugayupova

Registered in the Register

2019 September, 18



### VOLUNTARY CERTIFICATION SYSTEM OF PRODUCTS AND SERVICES «HALAL-BASHKORTOSTAN»

Registered in the Unified register of voluntary certification systems Registration No. POCC RU.3650.04CX50 dd. May 19, 2010.

No. 0000287

#### CERTIFICATE OF CONFORMITY

No. POCC RU.A901.H00287

valid from 13.12.2018 until 12.12.2021

HALAL PRODUCTS AND SERVICES CERTIFICATION AUTHORITY - LIMITED LIABILITY COMPANY (OOO) «BASHKORTOSTAN CENTER OF CERTIFICATION AND EXPERTISE» POCC RU.0001.19A901

450006, Republic of Bashkortostan, Ufa, Parkhomenko str., 156/1, building A

PRODUCT

"Halal", produced within norms of "Islam": Food additive -

"Sodium bicarbonate" E500 (ii) code OK-034(KIIEC 2008) 10.89.19150

CONFORMS WITH REQUIREMENTS OF THE VOLUNTARY CERTIFICATION SYSTEM «HALAL-BASHKORTOSTAN», REGULATORY AND TECHNICAL DOCUMENTATION GOST 32802-2014, Regulations on production management, trade, manufacture control and trade control of products, allowed to eat by Muslims - "Halal" PPT-SMR items 3,4,5,6,7,8

MANUFACTURER

Joint Stock Company "Bashkir Soda Company".

INN 0268008010. OGRN 1020202079479

Russia, 453110, Republic of Bashkortostan, Sterlitamak, Tekhnicheskaya str., 32

Joint Stock Company "Bashkir Soda Company".

**ISSUED FOR** 

INN 0268008010. OGRN 1020202079479

Russia, 453110, Republic of Bashkortostan, Sterlitamak, Tekhnicheskaya str., 32

**BASED UPON** 

Declaration of Conformity EA9C NRU II-RU. A936.B.00504/18 dd 13.12.2018. Certificate of Conformity No. POCC RU.A 936. H02656 dd 13.12.2018 issued by Certification Body for Products and Services of Bashsert LLC, Test Report No. 23700 dd. 01.10.2018 of Testing Laboratory Center of Federal Budget Health Care Institution "Hygienic and Epidemiology Center of Republic of Bashkortostan", Test Report No. 188c dd 12.12.2018 issued by JSC"BSC", Certificate No.15 dd. 01.12.2015 issued by Khalid bin al-Walid local Islamic religious organization of the Spiritual Directorate of the Muslims of Republic of Bashkortostan, Sterlitamak.

ADDITIONAL INFORMATION The Mark of the voluntary certification system (СДС) of products and services

"Halal-Bashkortostan" is marked on retail package. Storage conditions and sales terms are

within the requirements of regulatory documentation.

Director (Deputy Director) & of certification authority

Expert

(Gent

N.A. Sugayupova

R.I.Amirova







### **Certificate of Conformity**

Kiwa Agri Food certifies that

JSC "BSC"

complies with the requirements of the following scheme:

### **FEMAS**

Feed Materials Assurance Scheme: 1st February 2019

#### Site Address(es)

32 Tekhnicheskaya Street REPUBLIC OF BASHKORTOSTAN Russian Federation 453110

#### **Scope of Operation**

The production, sale and distribution of sodium bicarbonate for use in animal feed. Product traded through Trade House Bashkhim.

Expiry Date:

31/07/2021

Member No

54004

Certificate No:

80125

Certificate Issue:

191000-4

Valid From:

27/07/2018

Original Issue:

03/07/2015

#### Kiwa Agri Food is a trading name of Kiwa Ltd

This certificate is the property of Kiwa Ltd and must be returned to Kiwa Ltd upon request. It is granted subject to compliance with the relevant Scheme Regulations. Kiwa Ltd, The Inspire, Hombeam Square West, HARROGATE, HG2 8PA UK

072

The use of the UKAS accreditation mark indicates accreditation in respect of those activities covered by accreditation certificate 072



Kiwa Agri Food

Authorised Signatory



65 Watford Way | London NW4 3AQ | T +44 (0)20 8202 2263 | F +44 (0)20 8203 0610 | info@kfkosher.org | www.kfkosher.org

#### Beth Din

### KOSHER CERTIFICATE

This is to certify that the following product:

### NAHCO<sub>3</sub>

Produced by Bashkir Soda Company, Bashkortostan, Russia On behalf of Mars Wrigley, St Petersburg, Russia

### is KOSHER PARVE

(excluding Passover)

THIS CERTIFICATE IS VALID UNTIL  $1^{\rm ST}$  MARCH 2020

KOSHER

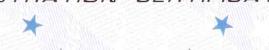
Rabbi M D Elzas Director of Kashrus

Date: 12th June 2019





### REACH REGISTRATION CERTIFICATE



According to Regulation (EC) No 1907/2006 of the European Parliament of 18 December 2006 European Union Regulation concerning the Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) non-Community manufacturer:

#### JSC SODA 7, BABUSHKINA, STERLITAMAK, 453122 RUSSIA

Appointed to represent its interests in EU and act as its Only Representative (according to Article 8 of the REACH Regulation):

#### «KAUSTIK EUROPE B.V.» 2993 LM, BARENDRECHT, THE NETHERLANDS.

Kaustik Europe B.V. acting under the instructions of JSC Soda, Sterlitamak accomplished the registration process for the following chemicals:

Name	EC No.	CAS No.	Registration No	Tonnage
Sodium carbonate	207-838-8	497-19-8	01-2119485498-19-0025	>1000 mt
Sodium hydrogencarbonate	205-633-8	144-55-8	01-2119457606-32-0019	>1000 mt

In registration data of appointed only representative Kaustik Europe B.V. is identified by a Universal Unique Identifier (UUID):

IUC5-30A94EB5-984E-47D5-A54C-62D1F852D23B

Only Representative

KAUSTIK EUROPE B.V.



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: <u>Matalinova.EG@soda.ru</u>

Person responsible in EC: Vladimir Khodyrev

E-mail: 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

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 that 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;

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





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 (CO2).

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.

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



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 pemissible concentration (MPC) of sodium hydrogen carbonate in the air of working zone is 5 mg/m<sup>3</sup> (aerosol).

#### **Permissible Exposure Limits:**

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

DNEL acute - not considered necessary;

DNEL long term - not considered necessary;

DNEL local for oral exposure - not considered necessary;

DNEL local for dermal exposure- not considered necessary;

DNEL acute local during inhalation - not considered necessary;

DNEL long term, local during inhalation - not considered necessary;

DNEL eye exposure – not considered necessary.

#### Predicted No-Effect Concentrations (PNEC)

PNEC residue – not considered necessary;

PNEC soil - not considered necessary;

PNEC atmospheric air - not considered necessary;

PNEC STR- not considered necessary;

PNEC STP-added - not considered necessary;

PNEC oral (secondary infection) - not considered necessary.



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 @  $20^{\circ}$ 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> @  $20^{\circ}$ C.

Water solubulity: 93.4 g/l @ 20°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).

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**

10.1. Reactivity Does not react under normal environmental conditions.

Not compatible with acids. Slowly decomposes in water.

10.2. Chemical Stability Chemically stable

10.3. Possibility of Hazardous H

Reactions

Hazardous interaction reactions are unknown.

**10.4.** Conditions to Avoid Avoid exposure to humidity.

Keep away from heat sources. Decomposition follows at

temperatures > 50 ° C.

10.5. Incompatible Materials

Incompatible with acids.

10.6. Hazardous Decomposition

**Products** 

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:

$$H_2O + CO_2 \iff H_2CO_3 \iff H^+ + HCO_3^-$$

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:

pH factor =  $pk + log [HCO_3]/aPCO2$ .

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

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 HCO<sub>3</sub><sup>-</sup> / PCO<sub>2</sub> ratio, returning the blood pH to normal. Thus, metabolic acidosis can give HCO<sub>3</sub><sup>-</sup> compensated by hyperventilation and by increased kidney absorption. Metabolic alkalosis (alkaline intoxication) can be compensated by hyperventilation and excess HCO<sub>3</sub><sup>-</sup> 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  $LD_{50} = 4200 \text{ mg/kg}$ , 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.

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**

12.1.	Ecoto	oxio	city

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)  $C_{50} > 100 \text{ mg/l}$ ,

(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)

12.2. Persistence and Degradability

Methods for determination of biodegradability are not applicable to

inorganic substances.

12.3. Bioaccumulation Potential

Not determined

12.4. Variability in soil

Not determined

12.5. Evaluation of PBT and vPvB

According to Annex XIII of the REACH Regulation, inorganic

substances should not be evaluated by PBT or vPvB.

12.6. Other Adverse Effects

Not determined

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 CONSIDEATIONS

13.1. Waste Processing/Treatment Methods Methods of waste disposal:

Contact waste disposal services.

If reuse is not feasible, dispose it in accordance with national, state

or local regulations.

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.

#### **SECTION 14: TRANSPORTATION INFORMATION**

**14.1. UN number** Not applicable. The product is not dangerous goods.

14.2. Shipping Name Sodium Bicarbonate

14.3. Transport Hazard Class <u>Land Transportation</u>

ADR / RID - not classified

River Transportation
AND (R) - not classified

Sea Transportation
IMDG - not classified

Air Transportation

ICAO / IATA - not classified

14.4. Packaging Group Not controlled

14.5. Environmental Hazard None (non-hazardous to the environment in accordance with the

Technical Regulations)

**14.6.** Special precautions for user No additional information.

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)

Not controlled

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.

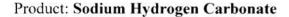
**Section 2.** Classification and labeling in accordance with DSD is deleted (canceled).

**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.

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





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
		$LD_{50}$	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-	Occupational safety standards system General sanitary and hygienic requirements for the air

PDKss The average daily maximum permissible concentration

of harmful substance in the air of populated areas in

 $mg/m^3$ .

of the working area

88

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.curenaturalicancro.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

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

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:

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	e			
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	





#### THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

DQS Holding GmbH has issued an IQNet recognized certificate that the organization

#### Joint Stock Company Bashkir soda company

Tekhnicheskaya str., 32 453110 Sterlitamak Republic of Bashkortostan Russian Federation

has implemented and maintains an Environmental Management System.

for the following scope:

Production and supply of chemical products, including basic inorganic substances (caustic soda, sodium carbonate, chlorine); power gas; plastics and synthetic resin in primary forms (polyvinyl chloride, soft cable compound) and other organic and inorganic chemical products

which fulfills the requirements of the following standard:

ISO 14001: 2015

Issued on:

2020-08-03

Expires on:

2023-08-02

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document.

Registration number: DE-508367 UM15

Alex Stoichitoiu President of IQNet Michael Drechsel Managing Director of DQS Holding GmbH



#### IQNet Partners\*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy

CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA

FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertificiniti Oy Finland INTECO Costa Rica

IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland

NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia

SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

<sup>\*</sup> The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com





## CERTIFICATE



This is to certify that



# Joint Stock Company Bashkir soda company

Tekhnicheskaya str., 32 453110 Sterlitamak Republic of Bashkortostan Russian Federation

has implemented and maintains an Environmental Management System.

Scope:

Production and supply of chemical products, including basic inorganic substances (caustic soda, sodium carbonate, chlorine); power gas; plastics and synthetic resin in primary forms (polyvinyl chloride, soft cable compound) and other organic and inorganic chemical products

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 14001: 2015

Certificate registration no.

508367 UM15

Valid from

2020-08-03

Valid until

2023-08-02

Date of certification

2020-08-03



DQS GmbH

Madens Etgen

Markus Bleher Managing Director

