

SAFETY DATA SHEET

SODIUM BICARBONATE

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued	28.04.2017
Revision date	02.03.2016

1.1. Product identifier

Product name	SODIUM BICARBONATE
IUPAC name	Sodium Bicarbonate
REACH Reg. No.	01-2119457606-32
CAS No.	144-55-8
EC No.	205-633-8
Article no.	NB Clean Blast 5L, Laser 7138 , NB Clean Siivoussooda
Extended SDS with ES incorporated	No

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

Use of the substance / preparation	pH neutralizer , Fire retardant , Manufacture of soap and detergents, cleaning and polishing mixtures , Cleaning agent , Treatment and coating of metals , SU2 - Mining, (including offshore industries) , Manufacture of paper and paperboard
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1.3. Details of the supplier of the safety data sheet**Foreign manufacturer**

Company name	CIECH S.A.
Postal address	P.O. Box 271
Postcode	00-950
City	Warszawa Jasna 12 Pologne
Country	Poland

Distributor

Company name	Nordblast Oy
Postal address	Silakatu 2

Postcode	20380
City	TURKU
Country	Finland
Telephone number	+35840743613
Email	sales@nordblast.com
Website	www.nordblast.com
Enterprise No.	2196701-8

1.4. Emergency telephone number

Emergency telephone	Description: Poison Information Centre, Tukholmankatu 17, P.O.Box 790, FI-00029 HUS Helsinki, Finland tel. (24 h) / 09-4711 (exchange), 09-471977 (direct)
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SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Substance / mixture hazardous properties	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
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2.2. Label elements

2.3. Other hazards

PBT / vPvB	Not relevant.
Other hazards	PBT and vPvB assessment : not applicable

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents
Sodium hydrogencarbonate	CAS No.: 144-55-8 EC No.: 205-633-8		~ 100 %

SECTION 4: First aid measures

4.1. Description of first aid measures

General	When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact	Gently wash with plenty of soap and water. Get medical attention if irritation persists after washing.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if discomfort continues.
Ingestion	

Do NOT induce vomiting. Rinse mouth with water. Drink plenty of water. Never give liquid to an unconscious person.

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

General symptoms and effects	If inhaled : Irritation of mucous membranes , Respiratory irritation , cough Respiratory disorder In case of eye contact : Eye irritation , Redness , Lachrymation Skin contact : Skin irritation , Redness , Itch Oral : Nausea , Abdominal pain , Diarrhoea
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4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	No special instructions.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Improper extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Fire may cause evolution of: Carbon oxides (COx)
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5.3. Advice for firefighters

Personal protective equipment	Wear self-contained breathing apparatus and protective suit.
Other information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required.
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6.2. Environmental precautions

Environmental precautionary measures	Do not flush into surface water or sanitary sewer system.
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6.3. Methods and material for containment and cleaning up

Other information	Pick up and arrange disposal without creating dust. Pick up and transfer to properly labelled containers. Flush with water.
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6.4. Reference to other sections

Other instructions	For personal protection see section 8. Waste management measures , See chapter 13
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7.1. Precautions for safe handling

Handling	Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Avoid breathing dust. When using, do not eat, drink or smoke.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place.
Conditions to avoid	Protect from moisture.

Conditions for safe storage

Storage temperature	Value: < 35 °C
Air humidity	Value: 30 - 70 %

7.3. Specific end use(s)

Specific use(s)	No special instructions.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Sodium hydrogencarbonate	CAS No.: 144-55-8		
Control parameters comments	TWA: 10 mg/m3		
Exposure guidelines	Limit value type: TWA Value: 10 mg/m3 Comments: Dusts inhalable)		

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Product related measures to prevent exposure	Ensure adequate ventilation. Take off contaminated clothing and wash before re-use. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes.
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Eye / face protection

Required Properties	Tightly fitting safety goggles
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Hand protection

Suitable gloves type	Wear protective gloves.
Suitable materials	Nitrile. Butyl rubber. Neoprene.

Required properties for hand protection	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
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Skin protection

Skin protection remark	No recommendation given.
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Respiratory protection

Tasks needing respiratory protection	In case of inadequate ventilation wear respiratory protection.
Recommended type of equipment	Dust Mask.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Crystalline powder.
Colour	White.
Odour	Odourless.
Odour limit	Comments: not applicable
pH	Status: In aqueous solution Value: 8,6 Test reference: 5% Temperature: 20 °C
Melting point / melting range	Comments: not applicable
Boiling point / boiling range	Comments: not applicable
Flash point	Comments: not determined
Evaporation rate	Comments: not determined
Flammability (solid, gas)	Comments: not determined
Vapour pressure	does not ignite
Vapour density	Comments: not determined
Density	Comments: not applicable
Partition coefficient: n-octanol/ water	Value: 2,21 - 2,23 g/cm ³ Temperature: 20 °C
Spontaneous combustability	Comments: not applicable
Decomposition temperature	Comments: not applicable
Viscosity	Value: > 270 °C Comments: Decomposition starting from >50 °C. Comments: not applicable
Explosive properties	Not explosive
Oxidising properties	not determined

9.2. Other information

Other physical and chemical properties

Physical and chemical properties

Molecular formula : NaHCO₃**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Conditions to avoid

Heat. Decomposes on heating.
Protect from moisture. (hygroscopic)**10.5. Incompatible materials**

Materials to avoid

Acids , Alkali metals.

10.6. Hazardous decomposition products

Hazardous decomposition products

Carbon oxides (CO_x)**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity

Type of toxicity: Acute
Value:Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: 4000 - 7334 mg/kg b.w.**Other information regarding health hazards**

Assessment of skin corrosion / irritation, classification

None.

General respiratory or skin sensitisation

No sensitisation responses were observed.

Assessment of carcinogenicity, classification

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

Symptoms of exposure

Other information

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Repeated or prolonged exposure may cause irritation of eyes and skin. May cause irritation of the mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish

Value: 7100 mg/l
 Test duration: 96h
 Species: Lepomis macrochirus
 Test reference: LC50
 Comments: NOEC: 5200 mg/l

Acute aquatic, Daphnia

Value: 4100 mg/l
 Test duration: 48h
 Species: Daphnia magna
 Test reference: EC50
 Comments: NOEC: > 576 mg/l, 21 days (Daphnia magna)

Ecotoxicity

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

12.2. Persistence and degradability

Persistence degradability
additional information

Hydrolyses on contact with water.

Persistence and degradability,
comments

The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

Mobility

Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment

PBT assessment results

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

vPvB evaluation results

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Other adverse effects, comments

This information is not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods
of disposal

Dispose of in accordance with local regulations. Send to a licensed waste management company.

SECTION 14: Transport information

Dangerous goods

No

14.1. UN number**14.2. UN proper shipping name 14.3.****Transport hazard class(es)**

Comments	None.
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14.4. Packing group**14.5. Environmental hazards**

Comments	None.
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14.6. Special precautions for user

Special safety precautions for user	None.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	Not relevant
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

Legislation and regulations	This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).
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15.2. Chemical safety assessment

Chemical safety assessment performed	Yes
Chemical safety assessment	A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	
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Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	
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Additional information	Nordblast Oy
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Key literature references and sources for data	Material Safety Data Sheet 02.03.2016
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