

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Business name BICAR® FOOD
- Chemical name sodium bicarbonate
- REACH : Registration number 01-2119457606-32

1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

- Food additive - water treatment
- Cosmetic products
- Professional use - agriculture

1.3 Detailed data on the supplier of the safety data sheet**Firm**

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07508247, eshop@ekokoza.cz

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1.4 Telephone number for emergency situations

+420 228 882 830 [CareChem 24]

Toxicology Information Center in the Czech Republic: Na Bojišti 1, 128 21 Prague
Call: 224919293 or 224915402 Email: tis@vfn.cz (24 hours/day)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008.)**

- It is not classified as a dangerous product according to the above directive.

2.2 Marking elements**Regulation (EC) No. 1272/2008**

- It is not marked as a dangerous product according to the above directive.

2.3 Other hazards that do not affect the classification

- Not known.

Ecological information

- The substance/mixture does not contain ingredients considered to have endocrine-disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 when levels of 0.1% or higher.

Toxicological information

- The substance/mixture does not contain components that are considered to have endocrine-disrupting properties according to

REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 substance

- Chemical name	sodium bicarbonate sodium
- Synonyms	bicarbonate
- formula	NaHCO ₃

Information on ingredients and impurities

Chemical name	Identification number	Concentration [%]
Other substances with worker exposure limits		
Sodium bicarbonate	CAS No. : 144-55-8 EINECS No. : 205-633-8 Registration number: 01-2119457606-32-xxxx	>= 99 - <= 100

3.2 Mixture

- Not applicable, this product is a separate substance.

SECTION 4: First aid measures

4.1 Description of first aid

In case of inhalation

- Get out into the fresh air.
- In case of persistent problems, call a doctor.

In contact with skin

- Wash with soap and water.

In contact with eyes

- Rinse carefully with plenty of water, including under the eyelids.
- In case of persistent eye irritation, seek medical attention.

In case of ingestion

- If a large amount is swallowed: -
Give a small amount of water to drink.
- DO NOT induce vomiting.
- Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Effect -

- No danger that needs to be explicitly mentioned.
- In high concentrations: - slight irritation

In contact with

the skin

- Effect** - No danger that needs to be explicitly stated.
- Repeated or persistent exposure**

- Contact with dust can cause mechanical irritation or drying of the skin.

In contact with eyes**Effect -**

- Contact of dust with eyes can lead to mechanical irritation.

In case of ingestion**Effect -**

- Ingestion may cause stomach irritation, nausea, vomiting and diarrhea.

4.3 Indication of immediate medical attention and special treatment**Instructions for doctors**

- If symptoms persist or there are any doubts, it is necessary to seek the advice of a doctor.

SECTION 5: Firefighting measures**5.1 Fire extinguishers****Suitable extinguishing agents**

- Measures in the event of a fire should correspond to the surrounding conditions.

Unsuitable fire extinguishers

- None.

5.2 Special hazards arising from the substance or mixture

- Non-flammable substance.

5.3 Instructions for firefighters**Special protective equipment for firefighters**

- In case of fire, use self-contained breathing apparatus.
- Use appropriate protective equipment.

SECTION 6: Accidental release measures**6.1 Personal protection measures, protective equipment and emergency procedures****Advice for workers other than emergency responders**

- Take people to safety.
- It is necessary to exclude the formation of dust.

Advice for emergency responders

- Use appropriate protective equipment.
- Prevent slipping by sweeping.
- Prevent further spillage or spillage.

6.2 Environmental protection measures

- Do not allow to enter surface water or drains.
- Avoid mixing with acid in the drain/drainage (gas generation).

6.3 Methods and material for containment and cleaning up

- Collect and transfer to properly labeled containers.
- Store in a suitable closed container.

6.4 Reference to Other Sections

- Refer to paragraphs 7 and 8 containing protective measures.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Ensure adequate ventilation.
- Minimize dust generation and accumulation.
- Avoid contact with skin and eyes.
- Keep away from incompatible products

Hygiene measures

- Do not eat, drink or smoke while using.
- Wash your hands before a work break and after finishing work.
- Follow the safety regulations for handling chemicals.

7.2 Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures**Technical measures/storage conditions**

- Store in original packaging.
- Store in a dry place.
- Store in properly labeled containers.
- Keep the package closed.

- Keep out of:
 - Incompatible substances

Packaging material**Suitable material**

- Paper.
- Polyethylene

Unsuitable material

- Data not available

7.3 Specific end / specific end uses

- This product quality is not intended for use in the pharmaceutical industry.
- Contact your supplier for more information.

SECTION 8: Exposure controls / personal protective equipment**8.1 Control parameters**

- Does not contain any substances with occupational exposure limit values beyond their regulatory information obligation.

8.2 Limiting Exposure**Control measures****Technical measures**

- Take technical measures to comply with workplace exposure limits.
- Adequate ventilation must be ensured in the event of dust formation.

Individual protective measures**Respiratory protection -**

- Use only respiratory protection products complying with international/national standards.
 - Breathing mask with dust filter - Recommended
filter type: P2 filter
- Hand protection**

- Impermeable gloves

Eye protection

- Safety goggles

Skin and body protection

- Dust-proof protective clothing

Hygienic measures

- Do not eat, drink or smoke while using.
- Wash your hands before a work break and after finishing work.
- Follow the safety regulations for handling chemicals.

Limiting environmental exposure

- Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

<u>Physical condition</u>	solid
<u>Form</u>	crystalline powder
<u>Color</u>	White
<u>Odor</u>	odorless
<u>Odor Threshold</u>	Data not available
<u>Melting point / freezing point</u>	<u>Melting point/range:</u> Decomposition: yes
<u>Initial Boiling Point and Point Range boil</u>	<u>Boiling point/boiling range:</u> Thermal decomposition: yes
<u>Flammability (solids, gases)</u>	This product is not flammable.
<u>Flammability (Liquids)</u>	Data not available
<u>Flammability/explosive limits</u>	No data available
<u>Point of ignition</u>	Not applicable, inorganic
<u>Auto-ignition temperature</u>	Data not available
<u>Decomposition temperature</u>	> 50 °C
<u>pH</u>	8.4 (approx. 8.4 g/l) (25 °C) Water 8.6 (approx. 52 g/l) <u>pKa:</u> 6.3
<u>Viscosity</u>	<u>Dynamic viscosity :</u> Not applicable
<u>Solubility</u>	<u>Solubility in water:</u> 69 g/ l (0 °C) 93 g/l (20 °C) 165 g/l (60 °C) <u>Solubility in other solvents:</u> Alcohol: insoluble substance
<u>Partition coefficient: n-</u>	Not applicable, inorganic

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octanol/water

<u>Steam pressure</u>	Thermal decomposition
<u>Density</u>	2.21 kg/dm ³ <u>Bulk density: 0.5 - 1.3 kg/dm³</u>
<u>Relative density</u>	2.21 - 2.23 (20 °C)
<u>Relative vapor density</u>	Does not apply
<u>Particle size</u>	Data not available
<u>Evaporation rate (Butyl acetate = 1)</u>	No data available

9.2 Additional Information

<u>Explosiveness</u>	He doesn't expect
<u>Oxidizing properties</u>	He doesn't expect
<u>Spontaneous ignition</u>	Does not apply
<u>Molecular weight</u>	84.01 g/mol

SECTION 10: Stability and reactivity**10.1 Reactivity**

- He hates acids.
- Decomposes slowly when exposed to water.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- none

10.4 Conditions to Avoid

- Exposure to humidity.
- Do not overheat to avoid thermal decomposition.

10.5 Incompatible Materials

- Acids

10.6 Hazardous decomposition products

- none

SECTION 11: Toxicological information**11.1 Information on hazard classes defined in Regulation (EC) No. 1272/2008**Acute toxicity

Acute oral toxicity

LD50 : > 4,000 mg/kg - Rat , male and female
Method: according to the standardized method
This product has low acute toxicity
Unpublished work.

Acute inhalation toxicity

LC50 - 4.5 h (dust/mist) : > 4.74 mg/l - Rat Method: according , male and female to the standardized method Not classified as dangerous for acute inhalation toxicity according to the GHS system.

Unpublished work.
Dust

Acute dermal toxicity

Data not available

Acute toxicity (other routes of application) No data available Skin corrosion/irritation

Rabbit
mild irritation Method:
OECD Test Guideline 404 Unpublished work.

Serious eye damage / eye irritation

Rabbit
mild irritation Method:
OECD Test Guideline 405 Unpublished work.

Respiratory sensitization / skin sensitization

Data not available

Mutagenicity**Genotoxicity in vitro**

Strain: Escherichia coli with
or without metabolic activation

negative
Method: according to a standardized method Data
from the literature
Ames test with
metabolic activation.

negative
Method: Mutagenicity (Salmonella typhimurium - reverse mutation test) Data from the
literature

Genotoxicity in vivo No

Data not available

Carcinogenicity data available**Toxic effect on the reproductive system and fetal development No****Toxic effect on the reproductive system/
fertility**

data available

Developmental toxicity/Teratogenicity

Rat, female (female), Oral Teratogenicity
NOAEL:> 340mg/kg Method: according
to the standardized method The highest dose is
tested, The product is not expected to have toxic effects on the embryo/fetus., Unpublished work.

Rabbit, female (female), Oral
Teratogenicity NOAEL:> 330mg/kg
Method: according to the standardized method
The highest dose is tested, The preparation is not expected to have toxic effects on the embryo/
fetus., Unpublished work.

STOT**Specific target organ toxicity - single exposure**

Routes of exposure: Oral, Inhalation The substance or mixture is not classified as a substance toxic to a specific human organ at a single exposure according to the GHS criteria. internal evaluation

Specific target organ toxicity - repeated exposure

Data not available

Aspiration toxicity

Data not available

11.2 Information on other hazards

Endocrine-disrupting properties

The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels 0.1% or higher. Data not available

Human exposure experience

SECTION 12: Ecological information

12.1 Toxicity

Aquatic environment

Acutely toxic to fish

LC50 - 96 h : 7,100 mg/l - Lepomis macrochirus (Sunflower fish) continuous test
Analytical monitoring: yes

Method: according to the standardized method Unpublished internal work.
Not harmful to fish (LC/LL50 > 100 mg/L)

Acutely toxic to water fleas and other aquatic invertebrates

EC50 - 48 h : 4.100 mg/l - Daphnia magna (large pearl oyster) continuous test
Analytical monitoring: yes
Method: according to the standardized method Unpublished internal work.
Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

Toxicity to aquatic plants

Data not available Data

Toxicity to microorganisms

not available

Chronically toxic to fish

Data not available

Chronically toxic to water fleas and other aquatic invertebrates

NOEC: > 576 mg/l - 21 Days - Daphnia magna semi-static test
Analytical monitoring: no Method: OECD
Test Guideline 211 The highest concentration is tested Data from the literature Has no adverse long-term effects up to the limit of 1 mg/l (including).

12.2 Persistence and Deployability

Abiotic degradation

Stability in water

The product quickly decomposes into the relevant ions when in contact with water.

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Physical and photochemical elimination

Data not available

Biological degradation**Biodegradability**

Not applicable (inorganic substance)

12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water**

Not applicable (inorganic substance)

Bioconcentration factor (BCF)

According to the available data on the ingredients Not potentially bioaccumulative.
Expert opinion

12.4 Mobility in soil**Adsorption potential (Koc)**

According to the available data on the components, insignificant
adsorption internal evaluation

Known distribution to environmental components

Data not available

12.5 Results of PBT and vPvB assessment

Not applicable (inorganic substance)

12.6 Properties causing disruption of the endocrine system

The substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels 0.1% or higher.

12.7 Other Adverse Effects**Ecotoxicity assessment****Short-term (acute) hazard for the aquatic environment**

Not harmful to aquatic organisms (LC/LL50, EC/EL50 > 100 mg/L)

Long-term (chronic) hazard for the aquatic environment

It has no adverse long-term effects up to the limit of 1 mg/l (inclusive).

SECTION 13: Disposal considerations**13.1 Waste management methods****Disposal / Elimination**

- Contact a waste disposal service.
- If recycling is not possible, dispose of in accordance with local regulations.
- Dilute with plenty of water.
- Neutralize with acid.
- In compliance with local and national regulations.

Instructions for cleaning and disposal of packaging

- Recycling takes precedence, if it can be done, before landfilling or incineration.
- Clean containers with water.
- Dispose of rinse water in accordance with local and national regulations.
- It must be burned in a suitable incinerator that has the necessary permits for this purpose from the relevant authorities.

SECTION 14: Transport information**ADN/ADNR**

is not regulated

ADR

is not regulated

RID

is not regulated

IMDG

is not regulated

IATA

is not regulated

Note: The above regulations are valid at the date of issue of this safety data sheet. Due to the possible development of regulations regarding the transportation of hazardous materials, we recommend checking its validity with your dealer.

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/specific legislation relating to the substance or mixture****Notification statute**

Stock information	State
United States TSCA Inventory	- For cosmetic use only
Canadian Domestic Substances List (DSL)	- Listed
Australian Inventory of Industrial Chemicals (AIIC)	- Listed
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed
Taiwan Chemical Substance Inventory (TCSI)	- Listed
New Zealand. Inventory of Chemical Substances	- All folders are listed on of the New Zealand Inventory of Chemicals (NZIDC). Additional obligations under New Zealand's Hazardous Substances and New Organisms Act (HSNO) may apply. See section 15 of the safety sheet for New Zealand.

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EU. European Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)	<p>- When purchasing a product from a legal entity, Solvay, established in the EEA ("European Economic Area"), this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, as all its components are either excluded, exempted, and/or registered.</p> <p>When purchasing a product from a legal entity outside the EEA, please ask your local sales representative for further information.</p>
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15.2 Chemical safety assessment

- Does not apply

SECTION 16: Further information

Key or legend to abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement on the International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: Regulation for the international transport of dangerous goods by rail. IATA: International Air Transport Association.
- ICAO-TI: Technical instructions for the safe transport of dangerous goods by air.
- IMDG: International Maritime Dangerous Goods Regulation. TWA: Time weighted average.
- ATE: Estimated Acute Toxicity Value.
- EC: European Community number.
- CAS: Chemical Abstracts Service.
- LD50: A substance that causes 50% (half) death in a group of tested animals (median lethal dose).
- LC50: The concentration of the substance causing 50% (half) death in the group of tested animals.
- EC50: Effective concentration of the substance causing a maximum of 50% inhibition.
- PBT: Persistent, bioaccumulative and toxic substance.
- vPvB: Very persistent and very bioaccumulative.
- GHS/CLP/SEA: Regulation on classification, labeling and packaging.
- DNEL: Derived no-adverse level. PNEC: Estimate of no-adverse effect concentration.
- STOT: Specific target organ toxicity.

Not all of the above abbreviations are listed in this safety data sheet.

More information

- Sending the new edition to customers

NOTE: In this document, the thousands separator in numbers is "." (period), "," (comma) is used to separate decimal places

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief as of the date of publication. This information is for guidance only and is intended to assist users in the handling, use, processing, storage, transportation, loading and distribution of the product under satisfactory safety conditions and cannot be considered as a guarantee or specification of quality. They should be used in conjunction with, but not in place of, data sheets. This information therefore refers only to the specific product marked and does not apply if this product is used in combination with other materials or in another production process, unless expressly stated otherwise. Users are not exempted from the obligation to ensure compliance with all regulations related to their activities.

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