

SAFETY DATA SHEET

according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended



Sodium bicarbonate

Creation date 01st February 2024
Revision date Version 1

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

Product identifier

Chemical name Sodium bicarbonate
sodium hydrogencarbonate
CAS number 144-55-8
EC (EINECS) number 205-633-8
Registration number 01-2119457606-32-0000

Recommended use

Food additive. Feed additive. Medicinal products. Ingredient for cosmetics. Special applications.

Substance uses advised against

Details of the supplier of the safety data sheet

Distributor

Name or trade name Macco Organiques, s.r.o.
Address Zahradní 1938/46c, Bruntál 1, 792 01
Czech Republic
Identification number (CRN) 26819210
VAT Reg No CZ26819210
Phone +420 555 530 300
E-mail macco@macco.cz

Emergency telephone number

CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

This chemical **is not considered hazardous** by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Most serious adverse physico-chemical effects

Not specified.

Most serious adverse effects on human health and the environment

Not specified.

Label elements

none

Hazard not otherwise classified (HNOC)

Non identified

SECTION 3: Composition/information on ingredients

Identification numbers	Substance name	Content in % weight	Classification according to 29CFR 1910.1200	Note
CAS: 144-55-8 EC: 205-633-8 Registration number: 01-2119457606-32-0000	substance main component sodium hydrogencarbonate	99-100	not classified as dangerous	

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SECTION 4: First aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In the event of unconsciousness, do not provide food by mouth.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air.

Skin contact

Remove contaminated clothes.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with clean water. In the event of issues, find medical help.

Most important symptoms and effects, both acute and delayed

Inhalation

May cause respiratory irritation.

Skin contact

Possible irritation.

Eye contact

Possible irritation.

Ingestion

Irritation, nausea.

Notes to Physician

Symptomatic treatment.

SECTION 5: Firefighting measures

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes. Avoid dust formation. Provide sufficient ventilation. Do not inhale dust.

Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

Methods and material for containment and cleaning up

Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

Precautions for safe handling

Prevent formation of dust in concentrations exceeding the occupational exposure limits. Do not eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

Control parameters

Not specified.

Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Follow the usual measures intended for health protection at work and especially for good ventilation. Provide showers and eye wash possibility. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

EN166 - Personal Eye Protection Standard. Protective goggles or face shield (based on the nature of the work performed).

Skin protection

When handling in long-term or repeatedly, use protective gloves. EN ISO 374-1.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respirator.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.

SECTION 9: Physical and chemical properties

Appearance	
Physical state	solid, crystalline powder
Colour	white
Odour	without fragrance
pH	8 (5% solution at 20 °C)
Melting point/freezing point	cannot be determined - decomposition occurs
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flash point	not applicable
Evaporation rate	not applicable
Flammability	non-flammable
Upper and lower explosion limit	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	2.21
Solubility in water	9.6g / 100g 20°C
Partition coefficient n-octanol/water (log value)	not relevant
Auto-ignition temperature	not applicable
Decomposition temperature	≤100 °C
Kinematic viscosity	not applicable
Oxidising properties	It is not oxidising.

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SECTION 10: Stability and reactivity

Reactivity

The substance is non-flammable.

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

React violently with acids to evolve CO₂ (foaming).

Conditions to avoid

The product is stable and no degradation occurs under normal use. Heat. Humid air.

Incompatible materials

Acids.

Hazardous decomposition products

Not developed under normal uses. At temperatures over 50 °C decomposition occurs with release of CO₂ and carbonate. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

Sodium bicarbonate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>4000 mg/kg		Rat	
Inhalation	LC ₅₀	EPA OTS 798.1150	>4.74 mg/l of air	4 hours	Rat	

Skin corrosion/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Serious eye damage/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.
IARC - not listed; NTP - not listed; ACGIH - not listed; OSHA - not listed; Mexico - not listed

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

Endocrine disruptor information

The substance does not have endocrine disrupting properties.

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SECTION 12: Ecological information

Ecotoxicity

Based on available data the classification criteria are not met.

Acute toxicity

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Parameter	Value	Exposure time	Species	Environment
LC ₅₀	7100 mg/l	96 hours	Fish (Lepomis macrochirus)	
EC ₅₀	4100 mg/l	48 hours	Daphnia (Daphnia magna)	

Chronic toxicity

Sodium bicarbonate

Parameter	Value	Exposure time	Species	Environment
NOEC	>576 mg/l	21 days	Daphnia (Daphnia magna)	

Persistence and degradability

No data available for the substance.

Bioaccumulative potential

No data available for the substance.

Mobility in soil

No data available for the substance.

Other adverse effects

Not available.

SECTION 13: Disposal considerations

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

SECTION 14: Transport information

UN number or ID number

not subject to transport regulations

UN proper shipping name

not relevant

Transport hazard class(es)

not relevant

Packing group

not relevant

Environmental hazards

not relevant

Special precautions for user

Reference in the Sections 4 to 8.

Maritime transport in bulk according to IMO instruments

not relevant

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SECTION 15: Regulatory information

United States of America Inventory

TSCA (Toxic Substances Control Act)

This product is listed. No other TSCA rules affect this product.

U.S. Federal Regulations

SARA Title III (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substances, 40CFR355, Appendix A:

Not Listed

SARA 311 Hazard Class, 40CFR370:

See section 2 for more information

SARA 312 Threshold Planning Quantity (TPQ), 40CFR370

See section 2 for more information

SARA 313 Reportable Ingredients, 40CFR372

Not Listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):

There is no listed reportable quantity for this product.

CWA (Clean Water Act), section 301/311:

not Listed

CAA (Clean Air Act), section 112:

not regulated

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

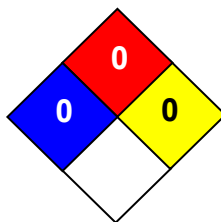
not regulated

Chemical safety assessment Not available.

SECTION 16: Other information

NFPA (National Fire Protection Association)

Health	0
Flammability	0
Reactivity	0
Special Hazard	None



4: Extreme, 3: High, 2: Moderate, 1: Slight, 0: Insignificant; OX: Oxidiser, W: Water Reactives, SA: Simple Asphyxiants

Competent person responsible for the safety data sheet

Name

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01-Feb-2024

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Revision Summary

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

End of SDS

