

SAFETY DATA SHEET

Sodium Bicarbonate

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Issued: 01/08/2022
Revision No: 4

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: SODIUM BICARBONATE
Synonyms; trade names: Sodium hydrogen carbonate, Baking Soda, Bicarbonate of Soda
REACH registration number: 01-2119457606-32-XXXX
CAS number: 144-55-8
EC number: 205-633-8

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses:

- Feed material.
- Food additive.
- Use in cosmetics.
- Use in cleaning agents.
- Medicinal products.
- Medical devices.
- Food contact materials.
- Flue gas treatment.
- Processing aid in metal and mining industry.
- Pulp and paper production.

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Not Classified.
Health hazards: Not Classified.
Environmental hazards: Not Classified.

Label elements:

EC number: 205-633-8

Other hazards:

[cont...]

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

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4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion: Rinse mouth thoroughly with water. Give plenty of water to drink. (approx. 500ml). Get medical attention if any discomfort continues.
Skin contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed:

General information: No additional symptoms or effects are anticipated.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray, dry powder or carbon dioxide. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:

Hazardous combustion products: Thermal decomposition or combustion products may include the following substances:
Irritating gases or vapours. Carbon dioxide (CO₂). Sodium Oxide.

Advice for firefighters:

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: For personal protection, see Section 8. Provide adequate ventilation. Do not touch or walk-through spilled material. Evacuate non-essential personnel.

Environmental precautions: Do not discharge into drains or watercourses or onto the ground.

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Methods and material for containment and cleaning up:

Methods for cleaning up: Avoid generation and spreading of dust. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

Reference to other sections: For personal protection, see Section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Usage precautions: Avoid inhalation of dust and contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly closed, original container in a dry, cool and well-ventilated place.

Specific end use(s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Ingredient comments: OSHA (PEL/TWA): 15 mg/m³ (total dust) 5 mg/m³ (respirable fraction) MSHA (PEL/TWA): 10 mg/m³ (total dust)

Exposure controls:

Protective equipment:



Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Eye/face protection: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection: It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material.

Other skin and body protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures: Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. Use NIOSH/MSHA approved respirator.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Powder.
Colour:	White.
Odour:	Odourless.
pH:	pH (diluted solution): 8.4
Flash point:	Non-combustible.
Relative density:	2.21-2.23 @ 20°C
Solubility(ies):	78 mg/L water @ 20°C
Explosive properties:	Not explosive.
Softening Point (°C):	
Conductivity:	
Other information:	

10. STABILITY AND REACTIVITY

Reactivity: The following materials may react with the product: Acids.

Chemical stability:

Stability: Stable at normal ambient temperatures.

Possibility of hazardous reactions: Reacts with acids to release Carbon Dioxide.

Conditions to avoid: Avoid heat.

Incompatible materials:

Materials to avoid: Acids Oxidising agents.

Hazardous decomposition products: Thermal decomposition or combustion products may include the following substances:
Carbon Dioxide (CO₂). Carbon Monoxide (CO).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Skin corrosion/irritation:

Animal data: Not irritating.

Serious eye damage/irritation:

Serious eye damage/irritation: Not available.

Germ cell mutagenicity:

Genotoxicity - in vitro: Not available.

Genotoxicity - in vivo: Not available.

Carcinogenicity:

Carcinogenicity: There is no evidence that the product can cause cancer.

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Reproductive toxicity:

Reproductive toxicity – fertility: Not available.

Reproductive toxicity – development: Not available.

Specific target organ toxicity - single exposure:

STOT - single exposure: Not available.

Specific target organ toxicity - repeated exposure:

STOT - repeated exposure: Not available.

Aspiration hazard:

Aspiration hazard: No information available.

Inhalation: May cause respiratory system irritation.

Ingestion: May cause discomfort if swallowed.

Skin contact: May cause skin irritation.

Eye contact: May cause temporary eye irritation.

12. ECOLOGICAL INFORMATION

Toxicity:

Acute aquatic toxicity:

Acute toxicity – fish: LC50, 96 hours: 7100 mg/l, *Lepomis macrochirus* (Bluegill)
NOEC, 96 hours: 5200 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates: EC₅₀, 48 hours: 4100 mg/l, *Daphnia magna*
NOEC, 48 hours: 3100 mg/l, *Daphnia magna*

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Mobility: The product is soluble in water.

Results of PBT and vPvB assessment: No information available.

Other adverse effects: Not available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground.

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14. TRANSPORT INFORMATION

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transport hazard class(es): No transport warning sign required.

Packing group: Not applicable.

Environmental hazards:

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU legislation: Regulation (EC) No 1272/2008 CLP.
Regulation (EC) No 1907/2006 REACH.

Chemical safety assessment: A chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.