

MSDS

SODIUM BICARBONATE

In accordance with Regulation (EC) No 1907/2006, Annex II, as amended. In accordance with REACH etc (amendment etc) (EU exit) Regulation 2020 No 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020

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

Name of the product	Sodium bicarbonate
EU REACH registration number	01-2119457606-32-0062
CAS Number	144-55-8
CE number	205-633-8
Synonyms, trade names	Sodium hydrogen carbonate, baking powder, bicarbonate of soda

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

Identified uses Raw materials for animal feed, food additives, medical products, medical devices, cosmetics, flue gas treatment, mining and metallurgy, paper industry, etc.

Not recommended for No specific use has been identified as being inadvisable.

1.2. Contact details for the supplier of the safety data sheet

Supplier	SAISA CHEMICALS
Address	C. JUAN HURTADO DE MENDOZA 15, 1º POST 28036 MADRID (SPAIN)
Landline telephone	+34 91345 94444
Email	saisa@saisa.es
Emergency telephone number	+34 9156 20420

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Unclassified
Health risks	Unclassified
Environmental hazards	Unclassified
Additional information	Classification (Regulation (EC) No. 1272/2008)

2.2. Labelling elements

CE Number	205-633-8
Hazard statement	Unclassified

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB

SECTION 3: Composition / Information on ingredients

3.1. Materials

Product name	Sodium Bicarbonate
CAS number	144-55-8
Cenumber	205-633-8
Chemical formula	Na ₂ CO ₃
Purity	> 99.5%

3.2 Mixed

The description	NA
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SECTION 4: First aid

4.1. Description of first aid measures

General information	Seek medical attention immediately. Show this safety data sheet to medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep airway clear. Loosen tight clothing such as collars, ties or belts. Consult a physician if symptoms persist.
Ingestion	Rinse mouth thoroughly with water. Stop if affected person feels ill, as vomiting may be dangerous. Do not induce vomiting except under the direction of medical personnel. If vomiting occurs, keep head down to prevent vomit from entering lungs.
Skin contact	Rinse immediately with plenty of water.
Contact lenses	Rinse immediately with plenty of water. Remove all contact lenses and open eyelids wide. Continue rinsing for at least 10 minutes.
Protection of first-aiders	First-aid personnel must wear appropriate protective equipment during any rescue operation.

4.2. Main symptoms and effects, acute and delayed

General information	See section 11 for further information on health hazards. The severity of the symptoms described will depend very much on the concentration and duration of exposure.
Inhalation	Dust may irritate the respiratory system.
Ingestion	In case of exposure to high concentrations: may cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause skin dryness.
Contact lenses	Dust may cause slight irritation

4.3 Indication of need for immediate attention and special treatment

Notes to physician	Treat symptomatically
Special treatments	No special treatment required.

SECTION 5: Fire fighting

5.1. Extinguishing media

Suitable extinguishing media	Product is not flammable. Extinguish with the following media. Water spray, foam, carbon dioxide dry powder
Unsuitable extinguishing media	Do not use water jets as extinguishers, as they will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Hazardous combustion products	NC Thermal decomposition of combustion products may include the following substances: noxious gases or vapors.
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5.3. Advice for firefighters

Protective actions during control against fire	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and move away from fire area if this can be done without risk. Cool containers exposed to flames with water long after the fire has been extinguished. Control run-off water by containing it and keeping it out of drains and watercourses. If there is a risk of water pollution, notify the appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection against chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No action should be taken without appropriate training or involving personal risk. Keep unnecessary and unprotected personnel away from spill. Wear protective clothing as described in section 8 of this safety data sheet. Follow the precautions for safe handling described in this safety data sheet. Wash thoroughly after handling spills. Ensure that procedures and training for decontamination and emergency disposal are in place. Do not touch or step in spilled product.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into the aquatic environment. Large spills: inform the appropriate authorities in the event of environmental pollution (sewers, waterways, soil or air).
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6.3. Methods and equipment for containment and cleaning up

Wear protective clothing as described in section 8 of this safety data sheet. Clean up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach spill from upwind. Avoid generation and spread of dust.

Small spills: remove spills with a vacuum cleaner or collect with a shovel and broom or similar.

Large spills: Spill with a shovel and broom, or similar, and reuse if possible. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spills must be correctly labelled with the correct contents and hazard symbol. Rinse contaminated area with plenty of water. Wash thoroughly after handling spills. After dilution and neutralization, discharge to sewer with plenty of water may be permitted. Local water authority requirements must be met if contaminated water is discharged directly into the sewer system. Dispose of waste at an approved waste disposal site in accordance with the requirements of the local waste disposal authority.6.4. Reference to other sections

Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for use

Read and follow manufacturer's recommendations. Wear protective clothing as described in section 8 of this safety data sheet. Keep away from food, drink and animal feed. Keep container tightly closed when not in use. Avoid handling leading to dust formation. Do not handle until you have read and understood all safety precautions. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene

Wash promptly if skin is contaminated. Remove contaminated clothing. Wash contaminated clothing before reuse. Do not suck, drink or smoke when using this product. Wash at the end of each shift and before eating, smoking and using the toilet. Change work clothes daily before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in accordance with local regulations. Store away from the following materials: acids. Keep only in original packaging. Keep container tightly closed, in a cool, well-ventilated place. Keep containers upright. Protect containers from damage. Consolidate storage facilities to prevent soil and water pollution in the event of a spill. The floor of the storage area must be watertight, seamless and non-absorbent.

7.3. Specific end use (s)

Specific end use(s)

Products identified for this product are detailed in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Exposure controls / personal protection

Comments on ingredients

No known exposure limits for ingredients

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal, work environment or biological monitoring may be necessary to determine the effectiveness of ventilation or other control measures and/or the need for respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means of minimizing worker exposure. Personal protective equipment should only be used when worker exposure is necessary. Personal protective equipment should only be used if workplace exposure cannot be adequately controlled by engineering controls. Ensure that control measures are regularly inspected and maintained. Ensure that operators are trained to minimize exposure.

Eye/phase protection	Goggles complying with the approved standard must be worn if a risk assessment indicates that eye contact is possible. Personal protective equipment that provides adequate eye and phase protection must be worn. Wear tight-fitting chemical splash goggles. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	Chemical-resistant, waterproof gloves conforming to an approved standard should be worn if a risk assessment indicates that skin contact is possible. The most appropriate glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information on chemical breakthrough time and resistance degradation. Taking into account the data specified by the glove manufacturer, check during use that the gloves retain their protective properties, and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following materials: Butyl rubber. Nitrile rubber.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard must be worn if a risk assessment indicates that skin contamination is possible.
Hygiene measures	Use eye wash station and safety shower. Contaminated work clothing must not be removed from the workplace. Wash contaminated clothing before reuse. Clean equipment and work area daily. Good personal hygiene procedures must be implemented. Wash at the end of each shift and before eating, smoking and using the toilet. Do not eat, drink or smoke while in use. Preventive industrial medical examinations must be carried out. Warn clean-up personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard must be worn if a risk assessment indicates that inhalation of contaminants is possible. Protection against nuisance dusts must be used when airborne concentrations exceed 10 mg/m ³ . Wear a suitable dust mask. Ensure that all respiratory protective equipment is fit for purpose and carries the "UKCA" mark. Check that the respirator fits properly and that the filter is changed regularly. Gas and combination filter cartridges suitable for the intended use must be used. Full-face respirators with replaceable filter cartridges suitable for the intended use must be used.
Environmental exposure controls	Keep container tightly closed when not in use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Solid. Granules
Color	White
Odor	Odorless
pHpH	(diluted solution): 8.4 (1%)
Melting point	> 500°C
Initial boiling point and	rangeNA
	BreakpointNA
Evaporation	rateNA
Flammability (solid, gas)	NA
Upper/lower limits	
Flammability or explosivity	No information available
Vapour pressure	66.9 Pa @ 20°C
Vapour density	No information available
Relative density	2.21-2.23@ 20°C

Solubility(s)	93.4 g/l water @ 20°C
Partition coefficient	NA
The auto-ignition temperature	NA
Decomposition temperature	> 60°C
	ViscosityNA
Explosive properties	NA
Oxidizing properties	NA

9.2. Other information

Other information	No information available
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SECTION 10: Stability and reactivity

10.1. Reactivity

<u>Reactivity</u>	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability Stability

Stable at normal ambient temperatures and when used as recommended. Stable under prescribed storage conditions.

10.3 Possibility of dangerous reactions

<u>Possibility of hazardous reactions</u>	No known potentially dangerous reactions.
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10.4 Conditions to avoid Conditions to avoid

There are no known conditions that could lead to a hazardous situation.

10.5. Incompatible materials

Materials to avoid	Strong acids. Strong oxidizing agents
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10.6 Hazardous decomposition products Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances:
Harmful gases or vapors

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute oral toxicity (LD ₅₀ mg/kg)	4.000.0
Species	Rate
Remarks (oral LD ₅₀)	On the basis of available data, the classification criteria are not met.
Oral ETA (mg/kg)	4.000.0
Acute dermal toxicity	
Remarks (dermal LD ₅₀)	On the basis of available data, the classification criteria are not met
Acute inhalation toxicity	
Remarks (inhalation LC ₅₀)	Based on available data, the classification criteria are not met
Skin corrosion/irritation	
	On the basis of the available data, the classification criteria are not met
Serious eye damage/irritation	
	Based on available data, the classification criteria are not met

Respiratory sensitisation	On the basis of available data, the classification criteria are not met
Skin sensitization	On the basis of available data, the classification criteria are not met
Germ cell mutagenicity	On the basis of the available data, the classification criteria are not met
Carcinogenicity	On the basis of the available data, the classification criteria are not met
Reproductive toxicity (fertility)	On the basis of available data, the classification criteria are not met
Reproductive toxicity (development)	On the basis of available data, the classification criteria are not met
Specific organ toxicity	
target organs - single exposure	Not classified as specific target organ toxicity after single exposure
Specific target organ toxicity -	
	repeated exposure No
Aspiration hazard	Danger of aspiration
General information	No specific health hazard known. Dust may irritate eyes and respiratory system. The severity of the symptoms described will depend very much on the concentration and duration of exposure. Inhalation Dust may irritate the respiratory system
Ingestion	In case of exposure to high concentrations: may cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause skin dryness.
Contact lenses	Contact lenses
Route of exposure for cattle	Ingestion, inhalation, skin and/or eye contact
11.2 <u>Information on other hazards</u>	No information available

SECTION 12: Ecological information

Ecotoxicity	Not considered environmentally hazardous. However, large or frequent
12.1. <u>Toxicity</u>	
Toxicity	
Acute aquatic toxicity	Based on available data, classification criteria not met.
Acute toxicity-fish	LC50, 96 hours: 5200 mg/l, lepomos macrochirus (bluegill)
LC50, 96 hours: 7100 mg/l, lepomos macrochirus (bluegill)	
Acute aquatic toxicity EC50, 48 hours, 3100 mg/daphnia magna	EC50, 48 hours, 4100 mg/daphnia magna
12.2. <u>Persistence and degradability</u>	
Persistence and degradability	The degradability of the product is not known.
12.3. <u>Bioaccumulative potential</u>	
Bioaccumulative potential	No data available on bioaccumulation

Partition	coefficientNA
12.4 <u>Mobility in soil</u>	
<u>Mobility</u>	No information available
12.5. <u>Results of PBT and vPvB assessments</u>	This product does not contain any substances classified as PBT or vPvB.
12.6. <u>Endocrine disrupting properties</u>	No information available.
12.7. <u>Other adverse effects</u>	No information available.

SECTION 13: Disposal considerations

13.1. Waste disposal methods

General information

Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of safely. Disposal of this product, treatment solutions, residues and by-products must at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, safety precautions applicable to the handling of the product must be taken into account. Precautions should be taken when handling empty containers which have not been thoroughly cleaned or rinsed. Empty containers or pipes may retain some product residues and therefore be potentially dangerous.

Disposal methods

Dispose of surplus products and those which cannot be recycled via a licensed waste disposal company. Waste, residues, empty containers, discarded work clothes and contaminated cleaning products must be collected in specially designed containers, labelled with their contents. Packaging waste must be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not possible.

SECTION 14: Transport information

General

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

14.1 UN number or identification	numberNA
14.2. Proper shipping name of	UNNAO
14.3. Transport hazard class(es)	Transport hazard class(es)
14.4 Packaging	groupNA
14.5. Environmental hazards	Environmentally hazardous substance/marine pollutant
14.6. Environmentally hazardous	substance/marine pollutantNA
14.7. Maritime bulk transport according to IMO instruments	NA

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture.

National regulations	Commission Regulation (EU) 2020/878 of June 18, 2020
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Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Restrictions (SI2020 N° 1577 Annexe XVII)

Restrictions (SI2020 N° 1577 Annexe XVII)

Restrictions (Annex XVII Regulation 1907/2006) No specific use restrictions are known for this product.

Seveso Directive - Control of major accidents Hazard Not relevant

15.2. Not relevant

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

STEL: Short-term exposure limits

TWA: Short-term exposure limits

OSHA: Occupational Safety and Health Administration

OEL: Occupational Exposure Limit

EC N°: The European Community number

CAS: Chemical Abstracts Service

ATE: Acute Toxicity Estimate

LC50: Lethal concentration in 50% of a test population

LD50: Lethal dose to 50% of a test population

PBT: Lethal dose to 50% of a test population

vPvB: Lethal dose to 50% of a test population

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IATA: International Air Transport Association

ICAO: Technical instructions for the safe transport of dangerous goods by air

IMDG: International Maritime Dangerous Goods

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