

MSDS

SODIUM BICARBONATE

According to Regulation (EC) No 1907/2006, Annex II, as amended. According to the REACH etc (Amendment etc) (EU exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION1: Identification of substance /mixture and of the company/undertaking

1.1. Product identifier

Product name	Sodium bicarbonate
EU REACH registration number	01-2119457606-32-0062
CAS number	144-55-8
EC number	205-633-8
Synonyms, trade names	Sodium hydrogen carbonate, bakin poder, bicarbonate soda

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

Identified uses	Feed material, food additive material, medical products, medical devices, cosmetics, flue gas treatment, mining and metal industry, paper industry
Uses advised against	Nospecific uses advised against are identified.

1.3. Details of the Supplier of the safety data sheet

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 N° 720)	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Additional information	Classification (Regulation (EC) No. 1272/2008)

2.2. Label elements

EC number	205-633-8
Hazard statement	Not Classified

2.3. Other hazards

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

SECCIÓN 3: Composition/information on ingredients

3.1. Substances

Product name	Sodium bicarbonate
CAS number	144-55-8
EC number	205-633-8
Chemical formula	Na ₂ CO ₃
Composition comments	> 99.5%

3.2. Mixtures

Description	NA
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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the 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. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin contact	Rinse immediately with plenty of water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	See section 11 for additional information on health hazards. The severity of the symptoms described will vary depending on the concentration and the length of exposure.
Inhalation	Dust may irritate the respiratory system.
Ingestion	If exposed to large concentrations: may cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Dust may cause slight irritation

4.3. Indication of any immediate attention and special treatment need

Notes for the doctor	Treat symptomatically
Specific treatments	No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with the following media. Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	NC
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Hazardous combustion products

Thermal decomposition of combustion, products may include the following substances: harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify 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 from chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions

Avoid discharge to the aquatic environment. Large spillages: inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Avoid generation and spreading of dust.
Small Spillages: remove spillage with vacuum cleaner or collect with a shovel and broom or similar.
Large Spillage: collect spillage 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 spillage must be properly labelled with correct contents and Hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Following dilution and neutralisation, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

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 feeding stuffs. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving 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 the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

7.3. Specific end use (s)

Specific end use (s)

The identified for this product are detailed in Section 1.2.

SECTION: Exposure control/s personal protection

8.1. Control parameters

Ingredients comments

No exposure limits known for ingredient(s)

8.2. Exposure control

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/fase protection	Eyewear complying with and approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove Supplier/manufacturer, who can provide information about the breakthrough time on the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gauntlets made of the following material: butyl rubber. Nitrile rubber.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations, should be carried out. Warn/clean personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . Wear a suitable dust mask. Ensure all respiratory protective equipment is suitable for its intended use and is "UKCA"-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls:	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid. Granules
Colour	White
Odour	Odourless
pH	pH (diluted solution): 8.4 (1%)
Melting point	> 500°C
Initial boiling point and range	NA
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	NA
Upper/lower flammability or explosive limits	No information available
Vapour pressure	66,9 Pa @ 20°C
Vapour density	No information available
Relative density	2.21-2.23@ 20°C

Solubility (ies)	93,4 g/l water @ 20°C
Partition coefficient	NA
Auto-ignition temperature	NA
Decomposition temperature	> 60°C
Viscosity	NA
Explosive properties	NA
Oxidizing properties	NA

9.2. Other information

Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

There are no known reactivity hazards associated with this product

10.2. Chemical stability

Stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No potentially hazardous reaction known.

10.4. Conditions to avoid

Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Material to avoid

Strong acids. Strong oxidising agents

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 vapours

SECTION 11: Toxicological information

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

Acute toxicity-oral (LD ₅₀ mg/kg)	4.000.0
Species	Rat
Notas (oral LD ₅₀)	Bases on available data the classification criterion are not met
ATE oral (mg/kg)	4.000.0
Acute toxicity-dermal	
Notes (dermal LD ₅₀)	Bases on available data the classification criterion are not met
Acute toxicity-inhalation	
Notes (inhalation LC ₅₀)	Bases on available data the classification criterion are not met
Skin corrosion/irritation	Bases on available data the classification criterion are not met
Serious eye damage/irritation	Bases on available data the classification criterion are not met
Respiratory sensitisation	Bases on available data the classification criterion are not met

Skin sensitisation	Bases on available data the classification criterio are not met
Germ cell mutagenicity	Bases on available data the classification criterio are not met
Carcinogenicity	Bases on available data the classification criterio are not met
Reproductive toxicity (fertility)	Bases on available data the classification criterio are not met
Reproductive toxicuty (development)	Bases on available data the classification criterio are not met
Specific target organ toxicity-single exposure	Not classified as a specific target organ toxicant after a single exposure
Specific target organ toxicity-repeated exposure	No
Aspiration hazard	Based on available data the classification criterio are not met
General information	No specific health hazards knuwn. Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will very dependen ton the concentration adn the length of exposure.
Inhalation	Dust may irritate the respiratory system
Ingestion	If exposed to large concetrations: may cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Dust may cause slight irritation
Route ox exposure	Ingestion, inhalation, skin and /or eye contact
11.2. <u>Information on other hazards</u>	No information available

SECTION 12: Ecological information

Ecotoxicity	Not regarded as dangeorus for the environment. Hoever, large or frequent
12.1. <u>Toxicity</u>	
Toxicity	
Acute aquatic toxicity	Based on available data the classification criterio are not met.
Acute toxicity-fish	LC ₅₀ , 96 hour: 5200 mg/l, lepomos macrochirus (bluegill) LC ₅₀ , 96 hour: 7100 mg/l, lepomos macrochirus (bluegill)
Acute toxicity-aquatic	EC ₅₀ , 48 hours, 3100 mg/daphnia magna EC ₅₀ , 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 in bioaccumulation
Partition coefficient	NA
12.4. <u>Mobility in soil</u>	
<u>Mobility</u>	No information available
12.5. <u>Results of PBT and vPvB assessment</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 consideration

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or lines may retain some product residues and hence be potentially hazardous.

Disposal methods

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

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 ID number

NA

14.2. UN proper shipping name

NA

14.3. Transport Hazard class (es)

No transport warning sign required

14.4. Packing group

NA

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

NA

14.7. Maritime transport in bulk according to IMO instruments

NA

SECTION 15: Regulatory information

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

National regulations

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

Restrictions (SI2020 N° 1577 Annex XVII)

No specific restrictions on use are known for this product

Restrictions (Annex XVII Regulation 1907/2006)

No specific restrictions on use are known for this product

Seveso Directive -Control of major accident Hazard

Not relevant

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and cronyms used
in the safety data sheet

STEL: Short Term Exposure Limits

TWA: Time Weighted Average

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 to 50% of a test population

LD50: Lethal Dose to 50% of a test population

PBT: Persistent, Bioaccumulative and Toxic substance

vPvB: very Persistent and very Bioaccumulative

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 ffor the safe transport of dangerous goods by air

IMDG: International Maritime Dangerous Goods

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