

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

1.1. Product identifier

Product form : Substance
 Substance name : BICARBONATE SODIUM E500(ii)
 INCI Name : SODIUM BICARBONATE
 EC no : 205-633-8
 CAS No : 144-55-8
 REACH registration No : 01-2119457606-32
 Product code : CA50523
 Formula : NaHCO₃.
 Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial
 Use of the substance/mixture : Pharmaceuticals products
 Water-processing for drinking water, industrial water, waste water
 Food processing
 Cosmetics
 Dental application

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

QUARON
 BP 89152
 35091 RENNES CEDEX 9 - FRANCE
 T +33 (0)2 99 29 46 00 - F +33 (0)2 99 29 46 24
fds-quaronfrance@quaron.com - www.quaron.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245
FRANCE	Centre Antipoison et de Toxicovigilance de Nancy - Base Nationale Produits et Compositions Hôpital Central	29 avenue du Maréchal de Lattre-de- Tassigny F-54035 Nancy Cedex	+33 (0)3 83 32 36 36
FRANCE	ORFILA		+33 (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

Not combustible.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type : Mono-constituent
 Name : BICARBONATE SODIUM E500(ii)
 CAS No : 144-55-8

BICARBONATE SODIUM E500(ii)

CA50523

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according to Regulation (EC) No. 1907/2006

Updated on : 01/07/2014

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Version : 1.0

EC no : 205-633-8

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
SODIUM BICARBONATE	(CAS No) 144-55-8 (EC no) 205-633-8 (REACH-no) 01-2119457606-32	>= 99	Not classified

Name	Product identifier	%	Classification according to Directive 67/548/EEC
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Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First aid measures	: Call a doctor or summon medical assistance urgently.
After inhalation	: Remove to fresh air, equipped with a suited respiratory protection. Allow the affected person to rest. Keep warm (blanket). Obtain medical attention if breathing difficulty persists.
After skin contact	: Wash skin thoroughly with mild soap and water. Remove contaminated clothing and shoes. Obtain medical attention if irritation persists.
After eye contact	: Immediately flush eyes with ocular solution or with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if possible. Consult an ophthalmologist if irritation persists.
After swallowing	: If victim completely conscious/alert. Rinse mouth. Seek medical attention if ill effect or irritation develops. Seek medical advice if the ingested quantity is significant.

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

- Skin contact	: Slight skin irritant.
- Eye contact	: Slight eye irritant.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry chemical powder. Product resistant foam. Carbon dioxide.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Thermal decomposition generates: Toxic gases.
Hazardous reactions	: Reacts with : Acids. monoammonium phosphate

Mono-ammonium phosphate.

General measures : Not combustible. Exercise caution when fighting any chemical fire.

5.3. Advice for firefighters

Firefighting instructions	: Evacuate the danger area. Only allow access to duly equipped emergency personnel. If possible, stop leaks.
Protection during firefighting	: Wear protective clothing and self-contained breathing apparatus.
Other information	: Disperse gas / vapour with sprayed water. Approach the hazard downwind. Cool containers exposed to fire. Collect contaminated extinction water separately and do not allow it to enter pipes or sewers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Wear a recommended breathing apparatus. Avoid contact with skin and eyes. Do not breathe dust.
Emergency procedures	: If the spillage occurs on a public highway, indicate the danger and notify local authorities. Evacuate and restrict access. Ensure that the area is well ventilated.

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6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For selection of breathing equipment, see chapter 8.
- Emergency procedures : If the spillage occurs on a public highway, indicate the danger and notify local authorities. Stop the leak. Evacuate the danger zone. Approach the danger downwind. Disperse gases/vapours with sprayed water. Move incompatible materials and products aside.

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers, ground and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Confine the product for collection or absorption with appropriate material. Stop leaks, where possible without risk to personnel.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Dilute and wash the spillage with big quantities of water.
- Other information : Prevent from entering drains, ground and drinking water. Contact a specialist for the possible destruction/collection of the collected product. Follow local regulations concerning destruction of the product.

6.4. Reference to other sections

Refer to chapter 8 relating to exposure controls and personal protection equipment and chapter 13 relating to disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid all unnecessary exposure. Provide local exhaust or general room ventilation to minimize exposure to dust. Do not breathe dust. Avoid making dust. When using, do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Wash clothing before re-using. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Personnel must be warned of the dangers of the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide adequate ventilation to minimize dust and/or vapour concentrations. Provide watertight, corrosion-resistant electrical installations. Water supply point nearby. Containment basin under tanks. Personnel must be warned of the dangers of the product.
- Storage conditions : Store in dry, cool, well-ventilated area. Store in tightly closed containers. Avoid : Heat and sunlight. Moisture.
- Incompatible products : Acids.
- Storage temperature : $\leq 30\text{ }^{\circ}\text{C}$

7.3. Specific end use(s)

For specific uses, contact the supplier.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SODIUM BICARBONATE (144-55-8)		
France	VME (mg/m ³)	5 mg/m ³ breathable aerosol

8.1.1 DNEL (Derived No Effect Level)

No data available

8.1.2 PNEC (Previsible None Effect Concentration)

No data available

8.2. Exposure controls

- Appropriate engineering controls : Have occupational exposure of employees assessed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Gloves. Safety glasses. Protective clothing. Dust formation: dust mask.



- Materials for protective clothing : Compatibility of gloves and clothing with the product must be verified with the supplier.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
 - Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

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- Skin protection : When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection must be worn.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Use a dust/aerosol mask P2 type.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Fine powder.
Molecular weight	: 84,01 g/mol
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH value	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2,22 g/cm ³
Solubility	: Water: 9,55 g/100ml , 20°C Ethanol: partly soluble
Log P octanol / water at 20°C	: No data available
Auto-ignition temperature	: Not applicable
Decomposition point	: 270 °C
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with : Acids. monoammonium phosphate

Mono-ammonium phosphate.

10.2. Chemical stability

Chemically stable under normal conditions of industrial use. Hygroscopic.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat and sunlight. Moisture.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Thermal decomposition generates toxic vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

SODIUM BICARBONATE (144-55-8)

Rat oral LD50 : 4220 mg/kg

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SODIUM BICARBONATE (144-55-8)

Rat inhalation LC50	> 4,74 mg/l/4h
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Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Not classified
 Respiratory or skin sensitisation : Not classified

CMR Informations:

Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Carcinogenicity: Not thought to be carcinogenic. Mutagenicity: non mutagenic. Does not affect fertility. Not toxic for development.

SECTION 12: Ecological information

12.1. Toxicity

- on water : The product is soluble in water.

SODIUM BICARBONATE (144-55-8)

LC50-96 hr - fish	7700 mg/l Oncorhynchus mykiss
EC50-48 h - Daphnia magna	4100 mg/l Daphnia magna
NOEC chronic fish	2300 mg/l Oncorhynchus mykiss
NOEC chronic crustacea	3100 mg/l Daphnia magna

12.2. Persistence and degradability

SODIUM BICARBONATE (144-55-8)

Persistence and degradability	The product isn't biodegradable (inorganic product).
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12.3. Bioaccumulative potential

SODIUM BICARBONATE (144-55-8)

Bioaccumulative potential	Not bioaccumulable.
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12.4. Mobility in soil

SODIUM BICARBONATE (144-55-8)

- on soil	Very high potential for mobility in soil.
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12.5. Results of PBT and vPvB assessment

SODIUM BICARBONATE (144-55-8)

Results of PBT assessment	This substance isn't considered as Persistent, Bioaccumulative and Toxic (PBT). This substance isn't considered as Very Persistent and Very Bioaccumulative (vPvB).
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Component

SODIUM BICARBONATE (144-55-8)	This substance isn't considered as Persistent, Bioaccumulative and Toxic (PBT). This substance isn't considered as Very Persistent and Very Bioaccumulative (vPvB).
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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : This material and its container must be disposed of as hazardous waste. Disposal must be carried out in accordance with legislation in force. This material should not be landfilled in sewers, rivers.

Sewage disposal recommendations : Do not pour down drains. Do not pour into surface water.

Waste disposal recommendations : After last use, the packing should be totally empty and closed. When the packing is consigned, it should be brought back by the supplier. Empty containers should be thoroughly rinsed with large quantities of clean water. Do not dispose containers with household waste.

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Additional information

: The user's attention is drawn to the possible existence of local restrictions and requirements relating to disposal of the product. Disposal must be carried out in accordance with local, regional or national legislation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Comply with regulations in force relating to transportation (ADR/RID, IATA/ICAO, IMDG). In the event of an accident, refer to the written transportation instructions and chapters 5, 6 and 7 of this Material Safety Data Sheet.

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH (SVHC) candidate substance

European Regulation CE/689/2008 concerning the exports and the imports of dangerous chemicals

No data available

15.1.2. National regulations

France

No data available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

11.1 LC50 inhalation rat (mg/l) Modified

The content and format of this MSDS are in accordance with regulation (EC) no. 1907/2006 of the European Parliament and Council of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of Chemicals as well as the restrictions applicable to these

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substances (REACH). This MSDS is a translation of the French version. The company which sells the product on overseas markets is responsible for the content of this MSDS.

This sheet completes specification sheets but does not replace them and the characteristic values are indicative and unguaranteed. Informations which it contains is based on the state of the knowledge of our suppliers relative to the concerned product, to the date of writing. They are given honest. The list of the statutory prescriptions and the applicable precautions simply aims at helping the user to fulfill its obligations during the use of the product. It is not exhaustive and cannot exempt the user of additional obligations connected to the other applicable laws to the detention or to the specificities of the implementation for which he remains only responsible within the framework of the analysis of the risks which he has to lead before any use of the product. The attention of the users is besides enticed to the risks possibly incurred when a product is used in the other manners that those for whom it is conceived.