

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Sodium bicarbonate solid (All grades)

Version 2.2

Print Date 2012/05/16

Revision Date 2012/05/16

MSDS code: MSBC010

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Sodium bicarbonate solid (All grades)
Substance name : Sodium hydrogencarbonate
CAS-No. : 144-55-8
EC-No. : 205-633-8

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland
Albion House, Rawdon Park
GB LS19 7XX Leeds Yeadon
Telephone : 0113 3879 200
Telefax : 0113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
01865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to Directive 67/548/EEC.

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Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

Additional Labelling:

Handle in accordance with good industrial hygiene and safety practice.

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.
Exempt

3. Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
Sodium hydrogencarbonate				
CAS-No. : 144-55-8	≤ 100	---	---	---
EC-No. : 205-633-8				
C&L-No. : 02-2119752794-27-0000				

4. First aid measures

4.1. Description of first aid measures

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General advice	: No special precautions required.
If inhaled	: Move to fresh air.
In case of skin contact	: Wash off with plenty of water.
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically. No further information available.
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5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: The product itself does not burn.
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5.3. Advice for firefighters

Special protective equipment for firefighters	: No special precautions required.
Further information	: No further information available.

6. Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation. Avoid contact with eyes.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Avoid dust formation. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No special storage conditions required.

Advice on protection against fire and explosion : No special precautions required. The product is not flammable.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Product is hygroscopic. Avoid moisture. Protect against water.

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Advice on common storage : Do not store near acids.

German storage class : 13/11 Non combustible solids; Packaging possibly combustible

7.3. Specific end uses

Specific use(s) : No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Dust-mask

Hand protection

Advice : Wear suitable gloves.
The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye protection

Advice : Safety glasses

Skin and body protection

Advice : Protective suit

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform
respective authorities.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	solid
Colour	:	white
Odour	:	odourless
Odour Threshold	:	Currently we do not have any information from our supplier about this.
pH	:	8.1 - 8.4 (50 g/l; 20 °C)
Melting point/range	:	no data available
Boiling point/boiling range	:	no data available
Flash point	:	not applicable
Evaporation rate	:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	:	Currently we do not have any information from our supplier about this.
Upper explosion limit	:	Currently we do not have any information from our supplier about this.

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Lower explosion limit	:	Currently we do not have any information from our supplier about this.
Vapour pressure	:	Currently we do not have any information from our supplier about this.
Relative vapour density	:	Currently we do not have any information from our supplier about this.
Density	:	2.2 g/cm ³ (20 °C)
Water solubility	:	95 g/l (20 °C)
Partition coefficient: n-octanol/water	:	Currently we do not have any information from our supplier about this.
Ignition temperature	:	Currently we do not have any information from our supplier about this.
Thermal decomposition	:	Currently we do not have any information from our supplier about this.
Viscosity, dynamic	:	Currently we do not have any information from our supplier about this.
Explosivity	:	Product is not explosive.
Oxidizing properties	:	Currently we do not have any information from our supplier about this.

9.2. Other information

Bulk density	:	700 - 1,150 kg/m ³
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10. Stability and reactivity**10.1. Reactivity**

Advice	:	No information available.
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10.2. Chemical stability

Advice	:	No decomposition if stored and applied as directed. No further information available.
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10.3. Possibility of hazardous reactions

Hazardous reactions : Incompatible with acids.

10.4. Conditions to avoid

Conditions to avoid : Strong sunlight for prolonged periods. Protect from humidity and keep away from water. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Materials to avoid : Metals, Acids

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO₂)

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

LD50 : 4220 mg/kg (rat)

Inhalation

Currently we do not have any information from our supplier about this.

Dermal

Currently we do not have any information from our supplier about this.

Irritation

Skin

No skin irritation

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Eyes

Dust in the eyes may cause mechanical irritation.

Sensitisation

not sensitizing

CMR effects

CMR Properties

- | | | |
|-----------------------|---|--|
| Carcinogenicity | : | Currently we do not have any information from our supplier about this. |
| Mutagenicity | : | Currently we do not have any information from our supplier about this. |
| Teratogenicity | : | Currently we do not have any information from our supplier about this. |
| Reproductive toxicity | : | Currently we do not have any information from our supplier about this. |

Specific Target Organ Toxicity

Single exposure

Currently we do not have any information from our supplier about this.

Repeated exposure

Currently we do not have any information from our supplier about this.

Aspiration toxicity

Currently we do not have any information from our supplier about this.

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12. Ecological information

12.1. Toxicity

Acute toxicity

Fish

LC50 : 7550 mg/l (Gambusia affinis (Mosquito fish); 96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 2350 mg/l (Daphnia magna (Water flea); 48 h)

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Does not cause biological oxygen deficit.

13. Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Do not let product enter drains. Dispose of in accordance with local regulations.

Contaminated packaging : In accordance with local and national regulations. Dispose of as unused product.

: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Clean container

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with water.

European Waste
Catalogue Number

: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

Not dangerous goods for ADR, RID and IMDG.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

Further information for transport

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

15. Regulatory information

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

Notification status

Sodium hydrogencarbonate:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
INV (CN)	YES	
ENCS (JP)	YES	(1)-164
ISHL (JP)	YES	(1)-164
EINECS	YES	205-633-8
KECI (KR)	YES	KE-31360
TSCA	YES	

15.2. Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

Further information

Other information : The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

|| Indicates updated section.