

DRI-PAK LIMITED

SAFETY DATA SHEET in accordance with Regulation (EC) 1272/2008 and Regulation (EU) 453/2010

Product: **BICARBONATE OF SODA**

MSDS 07/01/D

Version 1

Date compiled October 2012

Revision 0

Date revised N/A

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product Identifier**Product Name **Bicarbonate of Soda**

Chemical Name Sodium Hydrogen Carbonate

Alternative names Sodium bicarbonate, Soda Bicarb.

CAS Number 144-55-8

EC Number 205-633-8

REACH Registration Number 01-2119457606-32-0012

1.2 Relevant identified uses of the substance/mixture and uses advised against

Generally used for household surface cleaning and household deodorising purposes.

1.2.1 Uses advised against For cleaning purposes only, not to be taken internally. Use only as directed.

1.3 Details of the supplier of the safety data sheet

Company Details

Dri-Pak Limited,
Furnace Road,
Ilkeston, Derbyshire, DE7 5EP

Telephone

0115 9 325165

Fax

0115 9 440297

E-mail address

bruce@dripak.co.uk

1.4 Emergency Telephone Number

Emergency Number

07836 697940

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**2.1.2 Classification according to Regulation (EC) No 1272/2008 and EU Directive 67/548/EEC
Not classified as for supply.**2.2 Label elements**2.2.1 Labelling according to Regulation (EC) No 1272/2008 and EU Directive 67/548/EEC
No special labelling identified.**2.3 Other hazards**The substance does not meet the criteria for a PBT or vPvB substance.
No other information is available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1/2 Substance/Mixture**

Constituent	Formula	Purity %w/w (typical)	CAS Number	EC Number
Sodium Bicarbonate	NaHCO ₃	>98.5%w/w	144-55-8	205-633-8
Impurities				
None identified.				

4. FIRST AID MEASURES**4.1 Description of first aid measures**

4.1.1 General advice	No known delayed effects.
Inhalation	Move to fresh air, keep warm and at rest.
Skin contact	Wash skin with soap and water. If irritation occurs and persists seek medical advice.
Eye contact	Remove contact lenses if present. The eye should be thoroughly irrigated with clean water for not less than 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Obtain medical attention if symptoms develop.
Ingestion	Wash out mouth with water and give plenty of water to drink. Do not induce vomiting. If patient feels unwell obtain medical attention.
Further Medical Treatment	Symptomatic treatment and supportive therapy as indicated.

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4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Irritation may occur.

Eye contact: Redness or irritation may occur.

Ingestion: May cause coughing.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing.

4.3 Indication of any immediate medical attention and special treatment neededTreat symptomatically.

5. FIRE FIGHTING MEASURES5.1 Extinguishing media

Not combustible though packaging may burn.

5.1.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide fumes may be produced from bulk amounts when exposed to strong heat.

5.3 Advice for fire fightersNo special precautions required. Use suitable measures for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES6.1 Personal precautions, protective equipment and emergency procedures6.1.1 For non emergency personnel

Keep dust levels to a minimum.

6.1.2 For emergency responders

In the event of accidental release of bulk solid wear suitable gloves and eye/face

protection. Use vacuum suction or shovel into containers for re-use or disposal according to local legislation.

The affected area can be cleaned with plenty of water.

6.2 Environmental precautions

Prevent uncontrolled discharges into the environment.

6.3 Methods and material for containment and cleaning up

Refer to 6.1 above.

6.4 Reference to other sectionsFor personal protection see Section 8.

7. HANDLING AND STORAGE7.1 Precautions for safe handling

Always follow good personal hygiene when working with this product. Wash promptly with soap and water if skin becomes contaminated. Avoid contact with skin and eyes. Keep dust levels to a minimum.

7.2 Conditions for safe storage, including any incompatibles

Store in a cool dry place in the original containers. Keep away from acids except as directed.

Keep out of reach of children.

7.3 Specific end use(s)Refer to label on container.

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8. EXPOSURE CONTROLS /PERSONAL PROTECTION**8.1** Control parameters

No specific information available. Not listed by H&SE.

Recommended Workplace Exposure Limits (WEL): 10mg/m³ (total dust) (8hr TWA), 4mg/m³ (respirable dust) (8hr TWA).**8.2** Exposure controls**8.2.1** Appropriate engineering controls (for bulk product)

Provide adequate general ventilation.

8.2.2 Personal protective equipment (for bulk product)

Respiratory protection In the case of high dust levels wear suitable respiratory protective equipment e.g. dust mask or respirator, that conform international standard, EN143. Recommended filter type P2.

Eye protection Wear suitable eye/face protection.

Skin protection Gloves are recommended for people with sensitive or damaged skin. Avoid prolonged contact with skin. Rinse hands after use.

Industrial Hygiene Normal standards of industrial hygiene should be observed.

Disposal Use product as directed on label.

8.2.3 Environmental exposure controls

Contain any large spillage, avoid large discharges to the environment. Dispose of any large rinse water in accordance with local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1** Information on basic physical and chemical properties

Appearance white crystalline powder.

Odour odourless

Odour threshold not applicable

pH 8.4 (saturated solution)

Melting point/Freezing Point not applicable (decomposes on heating)

Initial boiling point and boiling point range not applicable (decomposes on heating)

Flash point not applicable (inorganic substance)

Evaporation rate not applicable

Flammability (solid, gas) non-flammable

Upper flammability or explosive limits non-flammable

Vapour pressure not applicable

Vapour density not applicable

Relative density (bulk density) 2.21 – 2.23g/ml

Solubility(water) 93.4 g/l (at 20 deg C)

Partition coefficient: n-octanol/water not applicable (inorganic substance)

Autoignition temperature non flammable

Decomposition temperature starts to decompose above 50oc

Viscosity not applicable

Explosive properties not explosive

Oxidising properties not an oxidising product

9.2 Other information

No other information available.

10. STABILITY AND REACTIVITY**10.1** Reactivity

Decomposes slowly on exposure to water. Reaction with acids causes evolution of carbon dioxide.

10.2 Chemical stability

Stable unless heated strongly.

10.3 Possibility of hazardous reactions

Liberates carbon dioxide when mixed with acid.

10.4 Conditions to avoid

Strong heat. Contact with acids unless under controlled conditions. Exposure to moisture.

10.5 Incompatible materials

Acids.

10.6 Hazardous decomposition productsWill decompose at high temperatures with release of carbon dioxide.

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11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Oral LD50, rat : >4000 mg/kg, Inhalation, rat : 4.74 mg/l (low toxic potential).

Inhalation High concentrations of dust may irritate the nasal membranes and respiratory system.

Skin contact May cause irritation to sensitive skin.

Eye contact May cause irritation and redness.

Ingestion Unlikely to be harmful unless excessive amount swallowed.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**Fish, *Lepomis macrochirus* : 96hr-LC50, 7100 mg/l; Fish, *Lepomis macrochirus* : 96hr-NOEC, 5200 mg/lInvertebrates, *Daphnia magna* : 48hr-LC50, 4100 mg/l; Invertebrates, *Daphnia magna* : 48hr-NOEC 3100 mg/lInvertebrates, *Daphnia magna* : 21day-NOEC >576 mg/l.**12.2 Persistence and degradability**

The substance is inorganic and biodegradation is not appropriate.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

Not a PBT or a vPvB substance.

12.6 Other adverse effectsNo other adverse effects are identified.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, county or national legislation.

13.1 Waste treatment methodsSmall quantities may be washed away using plenty of water. Dispose of contents by using as per directions for use. Recycle packaging where possible.

14. TRANSPORT INFORMATIONNo special precautions required. Not classified as dangerous for transport.

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

Health, safety and environmental details to be shown on label, Ref. Regulation (EC) No 1272/2008 and EU Directive 67/548/EEC

Refer to Section 2, no special details required.

15.2 Chemical safety assessmentA chemical safety assessment has been carried out on sodium bicarbonate.

16. OTHER INFORMATION

Abbreviations and acronyms

PBT Persistent, Bioaccumulative, Toxic

vPvB very Persistent, very Bioaccumulative

The product information in this Data Sheet is, to the best of Dri-Pak's knowledge, correct as at the date of publication. No warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself/herself that the product is suitable for his/her purpose.
