

DRI-PAK LIMITED

SAFETY DATA SHEET in accordance with Regulation (EC) 1907/2006 and Regulation (EU) 453/2010

Product: **BORAX SUBSTITUTE**

MSDS 16/02/D

Version 1

Date compiled October 2011

Revision 2

Date revised October 2019

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product Identifier**Product Name **Borax Substitute**

Chemical Name Sodium sesquicarbonate, Trisodium hydrogendicarbonate

CAS Number 533-96-0 EC Number 208-580-9

REACH Registration Number 01-2119494264-33-000-1

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

Generally used in household cleaning and laundry operations.

1.2.1 Uses advised against 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.

2.1.3 Not classified as for supply.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008.

No special labelling identified.

2.3 Other hazards

Not identified as 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 sesquicarbonate	CH ₂ O ₃ .3/2Na	>99.0	533-96-0	208-580-9
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. If symptoms persist seek medical advice.

Skin contact Wash the skin with plenty of water until no 'soapy' feeling remains. Obtain medical attention if symptoms, e.g. redness or irritation, develop.

Eye contact Remove contact lenses if present. The eye should be thoroughly irrigated with clean water for not less than 15 minutes. 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 needed
Treat symptomatically.

5. FIRE FIGHTING MEASURES

- 5.1 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 fighters
No special precautions required. Use suitable measures for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.1.1 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 sections
For personal protection see Section 8.
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7. HANDLING AND STORAGE

- 7.1 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 place in the original containers. Avoid contact with acids.
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.

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 currently not available

pH approx 10 (10% aq. w/w)

Melting point/Freezing Point not applicable

Initial boiling point and boiling point range not applicable

Flash point not applicable

Evaporation rate not applicable

Flammability (solid, gas) does not ignite

Upper flammability or explosive limits currently not available

Vapour pressure currently not available

Vapour density currently not available

Relative density (bulk density) 1g/ml

Solubility(water) 213.6 g/l (at 20 deg C)

Partition coefficient: n-octanol/water currently not available

Autoignition temperature Does not burn

Decomposition temperature currently not available

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

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. Solutions may react with new surfaces of aluminium and zinc and their alloys to produce hydrogen.

10.4 Conditions to avoid

Strong heat.

10.5 Incompatible materials

Acids, aluminium and zinc.

10.6 Hazardous decomposition products

Will decompose at high temperatures with release of carbon dioxide.

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

No specific information available.

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**

No specific information available.

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 effects

It is considered that other than local pH effects as a result of a large spill or release of untreated material directly into surface water, this substance will not be dangerous for the environment. Uses of the substance include water treatment. Avoid direct release of large quantities to the environment where the pH could exceed levels acceptable to local fauna and flora.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

No 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.

Refer to Section 2, no special details required.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out on sodium sesquicarbonate.

16. OTHER INFORMATION

Changes made to Revision 0: Reference to EU Directive 67/548 EEC deleted.

Revision 2: content reviewed : sole change: new MSDS code inserted.

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.
