

**DRI-PAK LIMITED**

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

Product: **SODA CRYSTALS**

MSDS 05/01/D

Version 1

Date compiled July 2011

Revision 1

Date revised June 2015

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product Identifier**Product Name **Soda Crystals, washing soda, washing soda crystals, fine soda crystals**

Chemical Name Sodium carbonate, sodium carbonate decahydrate, hydrated soda ash.

CAS Number 497-19-8

EC Number 207-838-8

Index Number 011-005-00-2

REACH Registration number 01-2119485498-19-0018

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

Generally used as a water softener in laundry operations, as a cleaning aid and as a mild alkali.

1.2.1 Uses advised against Do not mix with acids

**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**2.1.1 Classification according to Regulation (EC) 1272/2008  
Eye irritant 2**2.2 Label elements**

2.2.1 Labelling according to Regulation (EC) 1272/2008

Hazard Pictogram



Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation

Precautionary Statements:

P102: Keep out of reach of children

P264: Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313: If eye irritation persists: Get medical advice/attention

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## 2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB according to Annex XIII of the REACH Regulation EC 1907/2006 (an inorganic substance).

No other hazards identified.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1/2 Substance/Mixture

Main constituent	Formula	Purity % w/w (typical)	CAS Number	EC Number
Sodium carbonate	Na <sub>2</sub> CO <sub>3</sub>	>99.0	497-19-8	207-838-8

## Impurities

Added anti-caking agent. No impurities relevant for classification and labelling.

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

- 4.1.1 General advice Take off all contaminated clothing. No known delayed effects.
- Inhalation Move to fresh air, keep warm and at rest. If symptoms persist seek medical advice.
- Skin contact Remove contaminated clothing. 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.

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.

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**FIRE FIGHTING MEASURES**5.1 Extinguishing media

Non-combustible although packaging may burn.

## 5.1.1 Suitable extinguishing media

Use extinguisher suitable for surrounding fire conditions.

## 5.1.2 Unsuitable extinguishing media

No further information available.

5.2 Special hazards arising from the substance or mixture

Product may melt to form an aqueous solution, avoid splashes if melting occurs.

5.3 Advice for fire fighters

No special precautions required.

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**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 Do not breathe dust. Avoid contact with skin and eyes. Keep dust levels to a minimum. Ensure adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibles**

Store in a cool well-ventilated place in the original closed containers. Avoid contact with acids and finely divided aluminium, zinc, tin and their alloys. The product will melt at 32/33° C.

In open containers, the product may lose water of crystallisation.

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**Exposure limits (WEL) 10mg/m<sup>3</sup> total dust; 5mg/m<sup>3</sup> respirable dust.**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Provide adequate general ventilation. Provide appropriate exhaust ventilation at places where dust is formed. Apply technical measures to comply with the occupational exposure limits.

**8.2.2 Personal protective equipment**

**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 eye/face protection rated to protect eyes against dust (EN166) e.g. safety eye shields with dust protection, goggles or face visor.

**Skin protection** Dust impervious protective suit rubber or plastic boots where appropriate. 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** Empty container thoroughly before disposal, Rinse empty container with water and recycle where possible.

**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.

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

Appearance	fine white crystals
Odour	odourless
Odour threshold	currently not available
pH	>11 (saturated solution)
Melting point/Freezing Point	32/33° C (forms solution)
Initial boiling point and boiling point range	not applicable
Flash point	not applicable
Evaporation rate	currently not available
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)	0.8g/ml approx.
Solubility(ies) :	212.5 g/l @20 deg C(wrt anhydrous salt). Insoluble residue (up to 1%)
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.

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**10. STABILITY AND REACTIVITY**

10.1 <u>Reactivity</u>	Reaction with strong acids causes evolution of carbon dioxide.
10.2 <u>Chemical stability</u>	Loses water of crystallisation on prolonged standing in air and when heated to 32° C.
10.3 <u>Possibility of hazardous reactions</u>	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 <u>Conditions to avoid</u>	Strong heat causing the product to melt and then dry out.
10.5 <u>Incompatible materials</u>	Acids, aluminium and zinc.
10.6 <u>Hazardous decomposition products</u>	None.

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

No specific information available.

Inhalation	High concentrations of dust will irritate the respiratory system.
Skin contact	May cause skin irritation resulting from removal of natural greases.
Eye contact	Irritating to the eyes. May cause corneal damage in severe circumstances.
Ingestion	May result in a burning sensation in the mouth and throat, inability to swallow, and irritation of the gastro-intestinal tract with nausea and vomiting.

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**12. ECOLOGICAL INFORMATION**12.1 Toxicity

No specific information available.

12.2 Persistence and degradability

Not applicable.

12.3 Bioaccumulative potential

No bioaccumulation expected.

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

Based on bulk product.

High concentrations in receiving waters can cause long term adverse effects on the aquatic environment by raising pH. Low toxicity to fish.

No environmental hazard is likely provided the product is handled and disposed of with due care in accordance with normal household practice on following the instructions on the label.

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**13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods

Disposal should be in accordance with local, county or national legislation. Small quantities may be washed away using plenty of water. Dispose of contents by using as per directions for use. Rinse empty container and recycle where possible.

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**14. TRANSPORT INFORMATION**

In its normal packaging this product is not classified as hazardous for transport.

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**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) 1272/2008.

Refer to Section 2.

15.2 Chemical safety assessment

A Chemical safety assessment has been undertaken on sodium carbonate by our supplier.

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**16. OTHER INFORMATION**

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

Abbreviations and acronyms

PBT Persistent, Bioaccumulative, Toxic

vPvB very Persistent, very Bioaccumulative

WEL : Workplace exposure limit

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.

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