

EAST LANCASHIRE CHEMICAL COMPANY LIMITED

SAFETY DATA SHEET in accordance with Regulation (EC) 1272/2008, Regulation (EU) 453/2010, Regulation (EU) 2020/878

Product: **SODA CRYSTALS**

MSDS 15/01/D

Version 1

Date compiled July 2011

Revision 4

Date revised May 2021

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1. IDENTIFICATION OF THE SUBSTANCE

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 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 East Lancashire Chemical Co.Ltd

Edge Lane,

Droylsden, Manchester, M43 6AU

Telephone +44 161 3715585

Fax +44 161 3011990

E-mail address info@eastlancschemical.com

1.4 Emergency Telephone Number

Emergency Number UK 07836 697940

EU 112

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

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

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 OF INGREDIENTS

3.1/2 Substance/Mixture

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

Impurities

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

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.

5. 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.

8. EXPOSURE AND PERSONAL PROTECTION

8.1 Control parameters

Exposure limits (WEL) 10mg/m³ total dust; 5mg/m³ 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, which 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.

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)	non-flammable
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

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9. PHYSICAL AND CHEMICAL PROPERTIES CONT:-

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|-----|---------------------------------|--------------------------|
| 9.1 | Auto-ignition temperature | non-flammable |
| | Decomposition temperature | currently not available |
| | Viscosity | not applicable |
| | Explosive properties | not explosive |
| | Oxidising properties | not an oxidising product |
| 9.2 | <u>Other information</u> | |
| | No other information available. | |

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. |

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. |

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 Disposal should be in accordance with the 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.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

15.1 Safety, health 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.

16. OTHER INFORMATION

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

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

Revision 3: EU emergency telephone number added.

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 East Lancs Chemical Co'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.

