

SAFETY DATA SHEET

CRYSTAL ROD

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name CRYSTAL ROD

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

Identified uses Drain Unblocker

1.3. Details of the supplier of the safety data sheet

Supplier Aztec Chemicals
Unit 16, University Way
Orion Park
Crewe
Cheshire
CW1 6NG
+ 44 (0) 1270 655500 (T)
+ 44 (0) 1270 655501 (F)
info@aztecchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) C;R35.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

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Precautionary statements

P260 Do not breathe vapour/spray.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see medical advice on this label).
 P405 Store locked up.
 P102 Keep out of reach of children.
 P501 Dispose of contents/container in accordance with local regulations.

Supplemental label information RCH002b For professional users only.

Contains SODIUM HYDROXIDE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM HYDROXIDE		60-100%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27
Classification	Classification (67/548/EEC or 1999/45/EC)	
Met. Corr. 1 - H290	C;R35	
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately. Give plenty of water to drink.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Continue to rinse for at least 15 minutes.

Eye contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

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Specific hazards Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Keep unnecessary and unprotected personnel away from the spillage. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if possible without risk. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform authorities if large amounts are involved.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of dust and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from the following materials: Acids. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy. Store at temperatures between 5°C and 30°C. Store in tightly-closed, original container in a dry and cool place.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) For further information, see attached Exposure Scenario.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL

Consumer - Inhalation; Long term local effects: 1 mg/m³
Industry - Inhalation; Long term local effects: 1 mg/m³

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). Nitrile rubber. Chloroprene rubber. Minimum recommended glove thickness is 0.7mm; minimum breakthrough time should be in excess of 30min.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Pellets. Flakes.
Colour	White/off-white.
pH	pH (concentrated solution): 14
Melting point	318°C
Initial boiling point and range	1390°C @
Flash point	Not applicable.
Upper/lower flammability or explosive limits	The product is not flammable.
Vapour pressure	3.5 hPa @ 800°C
Relative density	2.13 @ 20°C
Solubility(ies)	Soluble in water. 420 g/l water @ 20°C
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.

9.2. Other information

Molecular weight	40
Volatility	Not applicable.

SECTION 10: Stability and reactivity

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10.1. Reactivity

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur. Hygroscopic.

10.4. Conditions to avoid

Conditions to avoid The following materials may react strongly with the product: Strong acids. Chlorohydrocarbons. Reacts strongly with water.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents. Strong oxides. Chemically-active metals. Organic cyanides (nitriles). Alkaline earth metals. 2. Ammonium compounds Magnesium. Organic nitro compounds. Avoid contact with flammable/combustible materials. Phenolic.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire or high temperatures may form toxic and corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Dust is severely irritating to the upper respiratory system. Dust may irritate the respiratory system. May cause coughing and difficulties in breathing.

Ingestion Causes burns. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact May cause serious chemical burns to the skin. Corrosive. Prolonged contact causes serious tissue damage.

Eye contact Causes burns. A single exposure may cause the following adverse effects: Corneal damage. Visual disturbances, including blurred vision.

SECTION 12: Ecological Information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 48 hours: 45.4 mg/l, Onchorhynchus mykiss (Rainbow trout)
LC₅₀, 48 hours: 48 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 76 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is soluble in water.

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12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Do not puncture or incinerate, even when empty.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Dispose of this material and its container to hazardous or special waste collection point. Avoid the spillage or runoff entering drains, sewers or watercourses.
Waste class	European waste catalogue : 06 02 04 Sodium and potassium hydroxide.

SECTION 14: Transport information

General Packs of 1kg or less are not regulated under the Limited Quantities provisions.

14.1. UN number

UN No. (ADR/RID)	1823
UN No. (IMDG)	1823
UN No. (ICAO)	1823
UN No. (ADN)	1823

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	SODIUM HYDROXIDE, SOLID
Proper shipping name (IMDG)	SODIUM HYDROXIDE, SOLID
Proper shipping name (ICAO)	SODIUM HYDROXIDE, SOLID
Proper shipping name (ADN)	SODIUM HYDROXIDE, SOLID

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C6
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II

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ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2W

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.
CHIP for everyone HSG228.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.
British Aerosol Manufacturers Code of Practice 7th. Edition 1999

Water hazard classification WGK 1

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 29/04/2015

Revision 1

SDS number 11779

SDS status Approved.

Risk phrases in full R35 Causes severe burns.

Hazard statements in full H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.