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## SAFETY DATA SHEET CRYSTAL GREEN

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

#### 1.1. Product identifier

**Product name** CRYSTAL GREEN

**Product number** S777

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

**Identified uses** Crystal Green is a highly concentrated powdered detergent, formulated for hot water extraction cleaning of heavily soiled and greasy carpets.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** www.prochem.co.uk  
Prochem Europe Ltd  
Oakcroft Road  
Chessington  
Surrey  
KT9 1RH  
  
Telephone: 020 8974 1515  
Fax: 020 8974 1511  
sales@prochem.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** 020 8974 1515 (office hours 8am to 5pm Monday to Friday) Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department, who may seek advice from the UK National Poisons Information Service, where our full product details are held.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

**Physical hazards** Met. Corr. 1 - H290

**Health hazards** Skin Corr. 1B - H314 Eye Dam. 1 - H318

**Environmental hazards** Not Classified

**Human health** Causes severe skin burns and eye damage. Contact with concentrate or solution May cause severe eye irritation. Inhalation Dust may irritate the respiratory system. Ingestion may cause: irritation of mouth and throat. Nausea, vomiting. May cause chemical burns in mouth and throat.

**Environmental** The product is expected to be biodegradable. The product is not expected to be hazardous to the environment.

**Physicochemical** May be corrosive to metals.

#### 2.2. Label elements

# CRYSTAL GREEN

## Pictogram



## Signal word

Danger

## Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

## Precautionary statements

P102 Keep out of reach of children.  
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.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310 Immediately call a POISON CENTER/doctor.

## Contains

Alcohols C9-11, ethoxylated, Disodium metasilicate, Alcohols, C9-11, ethoxylated

## Detergent labelling

≥ 30% phosphates, 5 - < 15% non-ionic surfactants, < 5% perfumes, Contains Hexyl cinnamal

## 2.3. Other hazards

See section 8 for details of exposure limits.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Sodium carbonate</b> CAS number: 497-19-8	EC number: 207-838-8	REACH registration number: 01-2119485498-19-XXXX	<b>10-30%</b>
<b>Classification</b> Eye Irrit. 2 - H319			
<b>Alcohols C9-11, ethoxylated</b> CAS number: 68439-45-2			<b>5-10%</b>
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318			
<b>Disodium metasilicate</b> CAS number: 6834-92-0	EC number: 229-912-9		
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335			

## CRYSTAL GREEN

<b>Alcohols, C9-11, ethoxylated</b> <span style="float: right;"><b>1-5%</b></span> CAS number: 68439-45-2
<b>Classification</b> Eye Dam. 1 - H318 Acute Tox. 4 - H302

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

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues. If powder is accidentally inhaled then treat as ingestion. Rinse nose and mouth with water.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention. Do not induce vomiting.
<b>Skin contact</b>	Rinse immediately with plenty of water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

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

<b>Skin contact</b>	Causes severe skin burns and eye damage.
<b>Eye contact</b>	May cause severe eye irritation. May cause blurred vision and serious eye damage.

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

<b>Specific treatments</b>	In the event of contact with eyes or ingestion seek immediate medical help. Rinse immediately with plenty of water.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Water spray, dry powder or carbon dioxide.
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#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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#### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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#### 6.3. Methods and material for containment and cleaning up

## CRYSTAL GREEN

**Methods for cleaning up** For concentrate: Collect spillage with a shovel and broom, or similar and reuse, if possible.  
For solution: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Do not store near heat sources or expose to high temperatures. Store in closed original container at temperatures between 5°C and 30°C. Keep out of the reach of children. Store away from the following materials: Metals.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Long-term exposure limit (8-hour TWA): NUI 4 mg/m<sup>3</sup> resp.dust 10 mg/m<sup>3</sup> total dust  
NUI = Nuisance Dust.

#### Disodium metasilicate

Short-term exposure limit (15-minute): SUP 2 mg/m<sup>3</sup>  
SUP = Supplier's recommendation.

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls** Provide adequate ventilation.

**Eye/face protection** Side shield safety glasses are recommended when handling this product.

**Hand protection** Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

**Hygiene measures** Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**Respiratory protection** Not required in normal use.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Appearance** Powder.

## CRYSTAL GREEN

<b>Colour</b>	Green.
<b>Odour</b>	Herbal Lemon.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (diluted solution): 9.5
<b>Initial boiling point and range</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.07
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.

### 9.2. Other information

**Other information** None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined.

### 10.4. Conditions to avoid

**Conditions to avoid** Store in closed original container at temperatures between 5°C and 30°C. Protect from freezing and direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Oxidising materials. Metals.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

## CRYSTAL GREEN

**Toxicological effects** This product is corrosive. May cause chemical burns in mouth and throat. Ingestion may cause: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Considered to be a low inhalation hazard at normal workplace temperatures. Dust in high concentrations may irritate the respiratory system.

### Acute toxicity - oral

**ATE oral (mg/kg)** 5,882.35

### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 23.78121284

### Skin corrosion/irritation

**Skin corrosion/irritation** Causes severe burns.

### Serious eye damage/irritation

**Serious eye damage/irritation** Contact with concentrate or solution May cause severe eye irritation. Risk of serious damage to eyes. May cause possible injury if not promptly rinsed.

### Skin sensitisation

**Skin sensitisation** Contains Hexyl cinnamal

### Germ cell mutagenicity

**Genotoxicity - in vitro** No effects expected based upon current data.

### Carcinogenicity

**Carcinogenicity** No effects expected based upon current data.

### Reproductive toxicity

**Reproductive toxicity - fertility** No effects expected based upon current data.

### Toxicological information on ingredients.

#### Sodium carbonate

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,800.0

**Species** Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

#### Alcohols C9-11, ethoxylated

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 300.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

## CRYSTAL GREEN

### Disodium metasilicate

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 1,280.0

Species Rat

### Alcohols, C9-11, ethoxylated

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 300.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** The product is not expected to be hazardous to the environment.

### Ecological information on ingredients.

#### Alcohols C9-11, ethoxylated

Acute toxicity - fish LC<sub>50</sub>, : > 10 mg/l,

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, : > 1 mg/l,

Acute toxicity - aquatic plants IC<sub>50</sub>, : > 10 mg/l,

#### Disodium metasilicate

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 210 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 1700 mg/l, Daphnia magna

#### Alcohols, C9-11, ethoxylated

Acute toxicity - fish LC<sub>50</sub>, >: > 10 mg/l,

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, >: > 1 mg/l,

Acute toxicity - aquatic plants IC<sub>50</sub>, >: > 10 mg/l,

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

## CRYSTAL GREEN

**Bioaccumulative potential**      The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient**              Not determined.

### 12.4. Mobility in soil

**Mobility**                              The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects**              None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods**                      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)**                      3262

**UN No. (IMDG)**                         3262

### 14.2. UN proper shipping name

Corrosive solid, basic, inorganic, N.O.S. (contains disodium trioxosilicate)

### 14.3. Transport hazard class(es)

**ADR/RID class**                              8

**IMDG class**                                 8

### 14.4. Packing group

**ADR/RID packing group**                 III

**IMDG packing group**                     III

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

No special storage precautions required. Supplied in accordance with "Limited Quantity" provisions.

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

**Transport in bulk according to**      Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

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



## CRYSTAL GREEN

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	Telephone 020 8974 1515
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	25/09/2015
<b>Revision</b>	3
<b>Supersedes date</b>	16/02/2015
<b>Signature</b>	Aaron Saunders
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

For additional information on safety, training and use of this product, contact the supplier. This product is intended for professional use only. The information given is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any guarantee as to the intended use.