



## 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 No.                        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                                Prochem Europe Ltd  
Oakcroft Road  
Chessington  
Surrey  
KT9 1RH  
Telephone: 020 8974 1515  
Fax: 020 8974 1511  
www.prochem.co.uk  
sales@prochem.co.uk

#### 1.4. Emergency telephone number

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 (1999/45/EEC)                      Xi;R38, R41.

##### Human health

Contact with concentrate or solution May cause severe irritation to eyes. Risk of serious damage to eyes. Prolonged or repeated exposure may cause: skin irritation and dermatitis. Inhalation. Dust may irritate respiratory system. Ingestion may cause: irritation of mouth and throat. Nausea, vomiting. Product is alkaline and may be mildly corrosive to mucous membranes.

##### Environment

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

#### 2.2. Label elements

##### Labelling



Irritant

##### Risk Phrases

R38    Irritating to skin.  
R41    Risk of serious damage to eyes.

##### Safety Phrases

S2    Keep out of the reach of children.  
S24/25                                        Avoid contact with skin and eyes.  
S26    In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39                                        Wear suitable gloves and eye/face protection.

#### 2.3. Other hazards

See section 8 for details of exposure limits.

# CRYSTAL GREEN

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>SODIUM CARBONATE</b>	<b>5-15%</b>
<b>CAS-No.: 497-19-8</b>	<b>EC No.: 207-838-8</b>
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36

<b>TETRASODIUM ETHYLENE DIAMINE TETRAACETATE</b>	<b>5-15%</b>
<b>CAS-No.: 64-02-8</b>	<b>EC No.: 200-573-9</b>
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22 Xi;R41

<b>DISODIUM METASILICATE</b>	<b>5-15%</b>
<b>CAS-No.: 6834-92-0</b>	<b>EC No.: 229-912-9</b>
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548/EEC) C;R34 Xi;R37

<b>ALCOHOLS C9-11, ETHOXYLATED</b>	<b>5-15%</b>
<b>CAS-No.: 68439-45-2</b>	<b>EC No.:</b>
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.

<b>ALCOHOLS, C9-11, ETHOXYLATED</b>	<b>1-5%</b>
<b>CAS-No.: 68439-45-2</b>	<b>EC No.:</b>
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.

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**

Move the exposed 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.

**Ingestion**

Rinse mouth thoroughly. Drink plenty of water. Never give liquid to an unconscious person. Get medical attention. **DO NOT INDUCE VOMITING!**

**Skin contact**

Flush skin thoroughly with water. Get medical attention if irritation persists after washing.

# CRYSTAL GREEN

## Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.

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

## Skin contact

Skin irritation.

## Eye contact

May cause severe irritation to eyes. May cause blurred vision and serious eye damage.

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

In the event of contact with eyes or ingestion seek immediate medical help. Rinse the eye with water immediately.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Water spray, dry powder or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

### 5.3. Advice for firefighters

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Avoid discharge into water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

For concentrate: Recover the product and place in a suitable container for reuse. For solution: Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal.

### 6.4. 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

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

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

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.

### 7.3. 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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
CRYSTAL GREEN	NUI	4 mg/m3 resp. dust	10 mg/m3 total dust			NUI = Nuisance Dust.
DISODIUM METASILICATE	SUP				2 mg/m3	SUP = Supplier's recommendation.

**8.2. Exposure controls****Protective equipment****Engineering measures**

Provide adequate ventilation.

**Respiratory equipment**

Not required in normal use.

**Hand protection**

Nitrile gloves are recommended. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

**Eye protection**

Side shield safety glasses are recommended when handling this product.

**Hygiene measures**

Wash hands after handling. Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Powder.
<b>Colour</b>	Green.
<b>Odour</b>	Herbal Lemon.
<b>Solubility</b>	Soluble in water.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Relative density</b>	1.07
<b>Vapour density (air=1)</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>pH-Value, Conc. Solution</b>	Not applicable.
<b>pH-Value, Diluted Solution</b>	9.5
<b>Viscosity</b>	Not determined.
<b>Odour Threshold, Lower</b>	Not determined.
<b>Odour Threshold, Upper</b>	Not determined.
<b>Auto Ignition Temperature (°C)</b>	Not determined.
<b>Flammability Limit - Lower(%)</b>	Not applicable.
<b>Flammability Limit - Upper(%)</b>	Not applicable.
<b>Partition Coefficient (N-Octanol/Water)</b>	Not determined.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.

**9.2. Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions**

Not determined.

**10.4. 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.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity:**

Product is alkaline and may be mildly corrosive to mucous membranes. Ingestion may cause: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Limited inhalation hazard at normal work temperatures. Dust in high concentrations may irritate the respiratory system.

**Skin Corrosion/Irritation:**

Irritating. Prolonged or repeated exposure may cause: skin irritation and dermatitis.

**Serious eye damage/irritation:**

Contact with concentrate or solution May cause severe irritation to eyes. Risk of serious damage to eyes.

**Respiratory or skin sensitisation:**

Contains Hexyl cinnamal

**Germ cell mutagenicity:**

No effects expected based upon current data.

**Carcinogenicity:**

No effects expected based upon current data.

**Reproductive Toxicity:**

No effects expected based upon current data.

**Toxicological information on ingredients.****SODIUM CARBONATE (CAS: 497-19-8)****Acute toxicity:****Acute Toxicity (Oral LD50)**

2800 mg/kg Rat

**Acute Toxicity (Dermal LD50)**

2000 mg/kg Rabbit

**Acute Toxicity (Inhalation LC50)**

2.3 mg/l (dust/mist) Rat 4 hours

**DISODIUM METASILICATE (CAS: 6834-92-0)****Acute toxicity:****Acute Toxicity (Oral LD50)**

1280 mg/kg Rat

**CRYSTAL GREEN**  
**TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

> 1740 mg/kg Rat

**ALCOHOLS C9-11, ETHOXYLATED (CAS: 68439-45-2)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

> 300 mg/kg

**Acute Toxicity (Dermal LD50)**

> 2000 mg/kg

**ALCOHOLS, C9-11, ETHOXYLATED (CAS: 68439-45-2)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

> 300 mg/kg

**Acute Toxicity (Dermal LD50)**

> 2000 mg/kg

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

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

**Ecological information on ingredients.**

**DISODIUM METASILICATE (CAS: 6834-92-0)**

**Acute Toxicity - Fish**

LC50 96 hours 3185 mg/l

**Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 4857 mg/l Daphnia magna

**TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)**

**LC 50, 96 Hrs, Fish mg/l**

> 100

**EC 50, 48 Hrs, Daphnia, mg/l**

> 100

**IC 50, 72 Hrs, Algae, mg/l**

> 100

**ALCOHOLS C9-11, ETHOXYLATED (CAS: 68439-45-2)**

**Acute Toxicity - Fish**

LC50 > 10 mg/l

**Acute Toxicity - Aquatic Invertebrates**

EC50 > 1 mg/l

**Acute Toxicity - Aquatic Plants**

IC50 > 10 mg/l

**ALCOHOLS, C9-11, ETHOXYLATED (CAS: 68439-45-2)**

**Acute Toxicity - Fish**

LC50 > 10 mg/l

**Acute Toxicity - Aquatic Invertebrates**

EC50 > 1 mg/l

**Acute Toxicity - Aquatic Plants**

IC50 > 10 mg/l

**12.2. Persistence and degradability**

**Degradability**

The product is expected to be biodegradable.

**12.3. Bioaccumulative potential**

**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**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

None known.

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

Dispose of waste and residues in accordance with local authority requirements. 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**

Not classified for transportation.

**14.2. UN proper shipping name**

Proper Shipping Name                      None

**14.3. Transport hazard class(es)**

None.

ADR/RID/ADN Class                      -

IMDG Class                                      -

**14.4. Packing group**

None.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**14.6. Special precautions for user**

None.

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

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Uk Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**EU Legislation**

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****General information**

Telephone 020 8974 1515

**Revision Date** 13/11/2012

**Revision** 1

**Signature** Aaron Saunders

**Risk Phrases In Full**

R34 Causes burns.  
R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R37 Irritating to respiratory system.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.

**Hazard Statements In Full**

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H335 May cause respiratory irritation.

**Disclaimer**

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.