



Product Specification &

SAFETY DATA SHEET

CHIP / EC FORMAT 91/155/EEC AMD 93/112/EC AMD 2001/58/EC

S777

CRYSTAL GREEN



SECTION 1: IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name: CRYSTAL GREEN **Product Code:** S777
Manufacturer: Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No: 020 8974 1515 (UK) +44 20 8974 1515 (EC) Chemical Product Manager E,H & S

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.

Product Description & Directions For Use:

Crystal Green is a highly concentrated powdered detergent, formulated for hot water extraction cleaning of heavily soiled and greasy carpets. S777 can be mixed with B125 Clensan® to combine cleaning, deodorising and sanitising in one operation.

Portable extraction machines - Mix 15ml. (1 measure scoop) of S777 per 5 litres of hot water in the machine solution tank. Mix thoroughly until fully dissolved.

Truck-mount units - Mix 1 kilo of S777 in 20 litres of water to make metering concentrate. Set flow meter at 2 to 4 GPH.

Always pretest carpet for colour fastness with ready-to-use solution before proceeding.

Pretreat heavily soiled areas with S709 Multi Pro or S710 Trafficlean according to label directions, then follow up with normal extraction cleaning procedure.

Cleaning and sanitising - Mix 20ml B125 Clensan® per litre of S777 solution (1 to 50).

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Phosphates	None assigned	None	7758-29-4	More than 30%
Carbonates	Xi R36	207-838-8	497-19-8	5 to 15%
Silicates	C R34 Xi R37	229-912-9	6834-92-0	5 to 15%
EDTA	Xn R22 Xi R36	200-573-9	64-02-8	5 to 15%
Non-ionic surfactant	Xn R22 Xi R41 N R50	None	68131-39-5	Less than 5%
Non-ionic surfactant	-	-	-	Less than 1%
Optical brightener	-	-	-	Less than 1%
Fragrance (IFRA certified)	-	-	-	Less than 1%
Dye	-	-	-	Less than 1%

SECTION 3: HAZARDS IDENTIFICATION

Classification: Irritating to eyes and skin.

Eye Contact: Contact with concentrate or solution may cause moderate eye irritation.

Skin Contact: Prolonged or repeated contact with concentrate or solution may cause irritation and possible dermatitis.

Inhalation: Excessive exposure to powder concentrate dust may cause respiratory irritation.

Ingestion: Ingestion of concentrate may produce nausea and irritation due to alkalinity.

Environment: Contains alcohol ethoxylate which is dangerous for the environment. See Ecological Information for further details.

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush immediately with water for 10 minutes, then seek medical attention if irritation persists.

Skin Contact: Flush skin with plenty of water. Seek medical attention if any skin irritation persists.

Inhalation: Move to fresh air and seek medical attention if irritation persists.

Ingestion: If small amounts are ingested, drink water and seek immediate medical attention. Do not give anything by mouth if patient is unconscious. If large amounts are ingested and patient is fully conscious, induce vomiting.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Product is not flammable. Use water, carbon dioxide, dry powder extinguisher, or other media appropriate for materials actually involved in fire.

Fire/Explosion Hazards: No explosion hazards.

Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

Special Protective Equipment: Use fuel protective equipment if large amounts involved in fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Protective clothing, rubber gloves, chemical splash goggles.

Containment and Disposal: Large spills should be treated with dry absorbent and disposed of at a legal waste disposal site. Small spills can be flushed with water to sewage drain linked to waste treatment facility.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Wear rubber gloves and safety glasses when handling concentrate.

Storage Precautions: Avoid extremes of temperature. Keep out of reach of children. Keep in original container.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: 10mg/m³ total 5mg/m³ respirable dust EH40

Environmental Controls: For additional guidance, contact ENVIROWISE at www.envirowise.co.uk or telephone 0800 585794

Eye Protection: Side shield safety glasses are recommended when handling concentrate.

Protective Clothing: Standard work clothing and rubber gloves.

Respiratory Protection: Not required.
Ventilation: Normal air circulation.
Hygiene: Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour/State: Moist Green Powder
Odour: Herbal Lemon
pH Concentrate: 11.5 **pH Diluted:** 9.5
Boiling Point / Range °C: Not applicable
Flash Point °C: None **Method:** Not applicable
Flammability Limit %: Not applicable
Explosive Properties: Not applicable
Oxidising Properties: Not applicable
Vapour Pressure: 760mm/Hg
Relative Density (Water = 1): 1.07
Solubility: Partial in water
Partition Coefficient (N-octanol / Water): Not determined
Viscosity: Not applicable
Vapour Density: Not determined
Evaporation Rate: Not determined
% Active: 100
% Solids: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.
Conditions to Avoid: Extremes of temperature.
Incompatibility (Materials to Avoid): Strong acids and oxidising materials.
Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Contact: Contact with concentrate or solution may produce moderate transient irritation.
Skin Contact: Prolonged or repeated contact may cause irritation and possible dermatitis.
Inhalation: No health effects expected. Excessive exposure to dust may cause respiratory irritation.
Ingestion: Product is alkaline and may produce gastrointestinal irritation and nausea. LD50 (oral rat) for silicates is 1280mg/Kg.
Acute and Chronic Effects:
Acute Toxicity: Not established
Corrosivity / Irritation: Skin, eye and respiratory
Sensitisation: None Known
Repeated Dose Toxicity: Not established
Mutagenicity: None
Carcinogenicity: None
Teratogenicity: None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Contains less than 5% alcohol ethoxylate which is classified as very toxic to aquatic organisms.
Alcohol Ethoxylate Fish EC50 10mg/l
Algae EC50 1mg/l
Daphnia EC50 10mg/l
Mobility: Soluble in water.
Persistence and Degradability: The raw material ingredients in this product are biodegradable within the scope of current EC legislation. The major packaging materials of polyethylene and fibreboard are recyclable. EDTA is slightly biodegradable.
Bioaccumulative Potential: Does not bioaccumulate.
Other Effects: None known or no relevant data available for substances in this preparation.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste cleaning effluent should be discharged to a sewage drain, which is linked to a local sewage and waste treatment facility. Large quantities of product for disposal should be consigned to a licensed haulier in accordance with UK and EC regulations.
Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.
Contact local Environment Agency office for waste holder requirements.

SECTION 14: TRANSPORT INFORMATION

UN No: None
Classification: Not classified as hazardous for transport
Proper Shipping Name: None
Packing Group: None
Road (ADR): None
Sea (IMDG): None
Air (ICAO / IATA): None
Rail (RID): None

SECTION 15: REGULATORY INFORMATION

Classification: Xi IRRITANT
Risk Phrases
R36/38 Irritating to eyes and skin.
Safety Phrases
S2 Keep out of 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 Wear suitable gloves.

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 3) 2002** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 1999** (as amended) and the **MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS 1999** (as amended).

This safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety regulations.

SECTION 16: OTHER INFORMATION

Risk Phrases: R22 Harmful if swallowed. R34 Causes burns. R36 Irritating to eyes. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R50 Very toxic to aquatic organisms.
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.
Revisions: Replaces SDS S777 Issue / Revision Date 01/09/01
Revised Sections: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 16