



Product Specification &

SAFETY DATA SHEET

CHIP / EC FORMAT 1907/2006 AMD 93/112/EC AMD 2001/58/EC

S778

HEAT WAVE



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: HEAT WAVE **Product Code:** S778
Manufacturer: Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No (office hours only): 020 8974 1515 (UK) +44 20 8974 1515 (EC) Chemical Product Manager E, H & S
 Website: www.prochem.co.uk Email: sales@prochem.co.uk
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:
 A highly concentrated carpet cleaning detergent, specially formulated for use in high heat truck mount and portable extraction cleaning equipment. Heat Wave dissolves quickly to give a powerful crystal clear solution that is stable at high cleaning temperatures. With a fresh tropical lemon fragrance, Heat Wave breaks through heavy soil and grease then rinses out to leave a residue free finish.
 Truck-mount units - Mix approx. 660 grams of S778 powder in 20 litres of hot water to make metering concentrate.
 Set flow meter at 2 to 4 GPH. 4 kilos of S778 powder makes approx. 120 litres of metering concentrate.
 Portable extraction machines - Mix 15ml (1 measure scoop) of S778 powder per 10 litres of hot water in the extraction machine solution tank. 4 kilos of S778 powder makes approx. 2500 litres of cleaning solution.
Always pretest carpet for colour fastness with ready-to-use solution before proceeding.
 Pretreat heavily soiled areas with S888 Ultraprep TLC traffic lane cleaner according to label directions, then follow up with normal extraction cleaning procedure.

SECTION 2: HAZARDS IDENTIFICATION

Classification: Risk of serious damage to eyes. Irritating to skin.
Eye Contact: Contact with concentrate or solution may cause severe eye irritation and possible damage.
Skin Contact: Prolonged or repeated contact may cause irritation and possible dermatitis.
Inhalation: Inhalation of powder dust or vapour may cause temporary irritation.
Ingestion: Ingestion of concentrate may produce nausea and irritation due to alkalinity.
Environment: See Ecological Information for further details.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Sodium carbonate	Xi R36	207-838-8	497-19-8	15 to 30%
Disodium metasilicate	C R34 Xi R37	229-912-9	6834-92-0	5 to 15%
Sodium xylene sulphonate	Xi R36/37/38	215-090-9	1300-72-7	5 to 15%
Alcohols, C7-21 ethoxylated	Xi R38 R41	None	68991-48-0	Less than 5%
2-(2-butoxyethoxy)ethanol	Xi R36	203-961-6	112-34-5	Less than 5%
Tetrasodium ethylenediaminetetraacetate	Xn R22 Xi R41	200-573-9	64-02-8	Less than 5%
Perfume (IFRA certified)	R10 Xn R65 Xi R43 N R51/53	None	None	Less than 1%
Perfume (IFRA certified)	Xi R43 N R51/53	None	None	Less than 1%
Limonene	R10 Xi R38 R43 N R50/53	227-813-5	5989-27-5	Less than 1%

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush immediately with water for 15 minutes, then seek medical attention.
Skin Contact: Wash with soap and water. Seek medical attention if any skin irritation persists.
Inhalation: Get fresh air and seek medical attention if breathing irritation persists. If powder is accidentally inhaled then treat as ingestion and rinse nasal passages.
Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

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 hazard.

Decomposition Products: During a fire, smoke may contain the original material in addition to toxic and/or irritating compounds. Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, water and other unidentified thermal decomposition products from this product or its packaging.

Special Protective Equipment: Self contained breathing apparatus and full protective clothing if large amounts involved in fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Protective clothing, nitrile butyl rubber gloves, chemical splash goggles.
Containment and Disposal: All spills should be treated with dry absorbent and disposed of at a legal waste disposal site.

SECTION 7: HANDLING AND STORAGE

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

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

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: 10mg/m³ inhalable 4mg/m³ respirable dust EH40.

Disodium metasilicate recommended WEL-STEL 2mg/m³
2-(2-butoxyethoxy)ethanol (IOELV) WEL-LTEL 10ppm WEL-STEL 15ppm.

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

Eye Protection: Side shield safety glasses.

Protective Clothing: Overalls and nitrile butyl rubber gloves. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

Respiratory Protection: Not normally 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: Red powder

Odour: Tropical Lemon

pH Concentrate: Not applicable **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): 1.00

Solubility: Not determined

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 oxidising or alkaline agents.

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, 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 severe irritation. Risk of tissue damage if not properly rinsed.

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

Inhalation: Excessive inhalation of powder dust or solution vapours may cause temporary irritation and/or CNS effects including dizziness, fatigue, nausea and headache.

Ingestion: May cause temporary gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration into lungs may cause chemical pneumonitis.

Acute and Chronic Effects:

Acute Toxicity: LD50 4090mg/kg (oral-rat) (sodium carbonate)

LD50 1280 mg/kg (oral-rat) (disodium metasilicate)

LD50 >2000mg/kg (oral-rat) (sodium xylene sulphonate)

LD50 6600mg/kg (oral-rat) (2-(2-butoxyethoxy)ethanol)

LD50 >1740mg/kg (oral-rat) (tetrasodium ethylenediaminetetraacetate)

Corrosivity / Irritation: Skin, eye and respiratory

Sensitisation: This product contains limonene, hexyl cinnamal and linalool.

Repeated Dose Toxicity: Not established

Mutagenicity: None

Carcinogenicity: None

Teratogenicity: None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: LC50 24h 2700mg/l (goldfish) (2-(2-butoxyethoxy)ethanol)

EC50 48 h >1000mg/l (daphnia) (2-(2-butoxyethoxy)ethanol)

LC50 96h >100mg/l (fish) (tetrasodium

ethylenediaminetetraacetate)

LC50 24h >500mg/l (daphnia) (tetrasodium

ethylenediaminetetraacetate)

Mobility: Soluble in water.

Persistence and Degradability: The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The major packaging materials of polyethylene and fibreboard are recyclable.

Bioaccumulative Potential: Does not bioaccumulate.

Other Effects: None known or no relevant data available for substances in this preparation.

SECTION 13: DISPOSAL CONSIDERATIONS

Cleaning waste effluent should be disposed of in accordance with regional and national requirements. 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

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.

S28 After contact with skin, wash immediately with plenty of water.

S37/39 Wear suitable gloves and eye/face protection.

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 3) 2002** (as amended), the **REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH) REGULATIONS** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 2002** (as amended) **REGULATION (EC) NO. 648/2004 ON DETERGENTS** (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: R10 Flammable R22 Harmful if swallowed. R34 Causes burns. R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. R51 Toxic to aquatic organisms. R53 May cause long term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed.

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 S778 Issue / Revision Date 01/07/05 Revised Sections: 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 15, 16.