



S778

HEAT WAVE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE THE COMPANY/UNDERTAKING

1.1. Product Identifier: HEAT WAVE

Product Code: S778

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

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 Heat Wave powder in 20 litres of hot water to make metering concentrate.

Set flow meter at 2 to 4 GPH. 4 kilos of Heat Wave powder makes approx. 120 litres of metering concentrate.

Portable extraction machines - Mix 15ml (1 measure scoop) of Heat Wave powder per 10 litres of hot water in the extraction machine solution tank. 4 kilos of Heat Wave powder makes approx. 2500 litres of cleaning solution.

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

Pre-treat heavily soiled areas with S888 Ultraprep TLC or S789 Power Burst according to label directions, then follow up with normal extraction cleaning procedure.

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

Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No (office hours 8am to 5pm, Monday to Friday 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

1.4. Emergency telephone number:

020 8974 1515 (UK) +44 20 8974 1515 (office hours 8am to 5pm, Monday to Friday only).

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/EC): Xi R38, R41.

Please see section 16 where the full text of each hazard statement and risk phrase is given.

Most important adverse effects:

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.

2.2. Label elements:



IRRITANT

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

For professional and industrial use only.

Keep out of the reach of children.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

Wear suitable gloves and eye/face protection.

2.3. Other hazards:

See section 8 for details of exposure limits.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures:

SUBSTANCE	RISK (See Section 16)	H Statements	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Sodium carbonate	Xi R36	H319	207-838-8	497-19-8	15 to 30%
Disodium metasilicate	C R34 Xi R37	H314 H335	229-912-9	6834-92-0	5 to 15%
Sodium xylene sulphonate	Xi R36/37/38	Not currently available	215-090-9	1300-72-7	5 to 15%
Alcohols, C7-21 ethoxylated	Xi R38 R41		None	68991-48-0	1 to 5%
(2-methoxymethylethoxy)propanol	None (community exposure limit)		252-104-2	34590-94-8	1 to 5%
Tetrasodium ethylenediaminetetraacetate	Xn R22 Xi R41		200-573-9	64-02-8	1 to 5%
Quaternary alkyl methyl amine ethoxylate methyl chloride	Xn R22 Xi R38 R41 N R50		None	61791-10-4	1 to 5%
Perfume (IFRA certified)	R10 Xn R65 Xi R43 N R50/53		None	None	0.1 to 1%
Limonene	R10 Xi R38 R43 N R50/53		227-813-5	5989-27-5	0.1 to 1%

SECTION 4: FIRST AID MEASURES

4.1. Description of 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.

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

Contact with concentrate or solution may produce severe eye irritation. Risk of tissue damage if not properly rinsed.

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

Seek immediate medical attention if swallowed or in the event of eye contact.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing Media:

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

5.2. Special hazards arising from the substance or mixture:

No explosion hazard. 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.

5.3. Advice for firefighters:

Self contained breathing apparatus and full protective clothing if large amounts involved in 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 sds.

6.2. Environmental precautions:

Do not wash into drains.

6.3. Methods and material for containment and cleaning up:

All spills should be treated with dry absorbent and disposed of at a legal waste disposal site.

6.4. Reference to other sections:

See sections 8 and 13 for further information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Wear nitrile rubber gloves and safety glasses when handling concentrate. Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities:

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

7.3. Specific end use(s):

A highly concentrated carpet cleaning detergent, specially formulated for use in high heat truck mount and portable extraction cleaning equipment.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters:

10mg/m³ inhalable 4mg/m³ respirable dust EH40.
Disodium metasilicate recommended WEL-STEL 2mg/m³
(2-methoxymethylethoxy)propanol (IOELV) WEL-LTEL 50ppm (308mg/m³) (Sk).

8.2. Exposure controls:

Eye/Face Protection: Side shield safety glasses.

Skin Protection: Overalls and nitrile 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance: Red powder

Odour: Tropical Lemon

Odour Threshold: Not determined

pH Concentrate: Not applicable **pH Diluted:** 9.5

Melting point/freezing point °C: Not determined.

Initial boiling point and boiling range °C: Not determined.

Flash Point °C: None **Method:** Not applicable

Evaporation Rate: Not determined.

Flammability (solid, gas): Not flammable.

Upper/lower flammability or explosive limits: Not determined.

Vapour Pressure: Not determined.

Vapour Density: Not determined.

Relative Density (Water = 1): 1.0

Solubility(ies): Soluble

Partition Coefficient (N-octanol / Water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not applicable

Explosive Properties: Not applicable

Oxidising Properties: Not applicable

% Active: 100

% Solids: Not applicable

9.2. Other Information:

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Stable under normal conditions.

10.2. Chemical stability:

Stable

10.3. Possibility of hazardous reactions:

Not determined.

10.4. Conditions to Avoid:

Extremes of temperature.

10.5. Incompatible materials:

Strong oxidising or alkaline agents.

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

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

LD50 600-1350mg/kg (oral-rat) (disodium metasilicate)

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

LD50 >3500mg/kg (oral-rat) [(2-methoxymethylethoxy)propanol]

LD50 20ml/kg (dermal-rabbit)

[(2-methoxymethylethoxy)propanol]

LD50 7h >550ppm (inhalation-rat)

[(2-methoxymethylethoxy)propanol]

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

ethylenediaminetetraacetate).

Excessive inhalation of powder dust or solution vapours may cause 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.

Irritation:

Inhalation of powder dust or solution vapour may cause temporary respiratory irritation.

Contact with concentrate or solution may produce severe eye irritation. Risk of tissue damage if not properly rinsed.

Prolonged or repeated skin contact may cause irritation and possible dermatitis.

Corrosivity: Not corrosive.

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

Repeated Dose Toxicity: Not established

Carcinogenicity: No effects expected based upon current data.

Mutagenicity: No effects expected based upon current data.

Toxicity for reproduction: No effects expected based upon current data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

LC50 96h 3185mg/l (fish) (disodium metasilicate)
EC50 48h 4857mg/l (daphnia) (disodium metasilicate)
LC50 96h >10000mg/l (goldfish)
[(2-methoxymethylethoxy)propanol]
EC50 48h 1919mg/l (daphnia)
[(2-methoxymethylethoxy)propanol]
EC50 96h >969mg/l (green algae)
[(2-methoxymethylethoxy)propanol]
LC50 96h >100mg/l (fish) (tetrasodium ethylenediaminetetraacetate)
LC50 24h >500mg/l (daphnia) (tetrasodium ethylenediaminetetraacetate)

12.2. 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.

12.3. Bioaccumulative Potential:

Does not bioaccumulate.

12.4. Mobility in soil:

Soluble in water.

12.5. Results of PBT and vPvB assessment:

Report not required.

12.6. Other adverse effects:

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

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

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

14.1. UN number: None

14.2. UN Proper Shipping Name: None

14.3. Transport hazard class(es):

Road (ADR): None

Sea (IMDG): None

Rail (RID): None

14.4. Packing Group: None

14.5. Environmental hazards: None

14.6. Special precautions for user: No special precautions required other than those previously mentioned in this safety data sheet.

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

Not intended to be carried as bulk.

SECTION 15: REGULATORY INFORMATION

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

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 4) 2009** (as amended), **REGULATION (EC) No 1272/2008 on CLASSIFICATION, LABELLING and PACKAGING of substances and mixtures**, 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.

15.2. Chemical safety assessment

Not currently available.

SECTION 16: OTHER INFORMATION

Full text of Risk phrases referred to in Section 2 and 3:

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. R53 May cause long term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed.

Full text of Hazard Statements referred to in Section 2 and 3:

H314 Causes severe skin burns and 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.

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