SAFETY DATA SHEET
HEAT WAVE

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

1.1. Product identifier

Product name HEAT WAVE

Product number S778

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

Identified uses 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.

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. Risk of serious damage to eyes. Dust may irritate the respiratory system. Ingestion may cause: irritation nausea May cause chemical burns in mouth and throat.

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

Physicochemical May be corrosive to metals.

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2.2. Label elements

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	Disodium metasilicate, Tetrasodium ethylene diamine tetraacetate, Alcohols, C7-21 ethoxylated, Quaternary alkyl methyl amine ethoxylate methyl chloride
Detergent labelling	≥ 30% phosphates,5 - < 15% anionic surfactants,< 5% cationic surfactants,< 5% EDTA and salts thereof,< 5% non-ionic surfactants,< 5% perfumes,Contains Citral, d-Limonene, Linalool, Geraniol

2.3. Other hazards

See section 8 for details of exposure limits.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Sodium carbonate **10-30%**

CAS number: 497-19-8 EC number: 207-838-8 REACH registration number: 01-2119485498-19-XXXX

Classification
Eye Irrit. 2 - H319

Disodium metasilicate **5-10%**

CAS number: 6834-92-0 EC number: 229-912-9

Classification
Met. Corr. 1 - H290
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335

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Sodium xylenesulphonate **5-10%**

CAS number: 1300-72-7 EC number: 215-090-9

Classification
Eye Irrit. 2 - H319

Tetrasodium ethylene diamine tetraacetate **1-5%**

CAS number: 64-02-8 EC number: 200-573-9

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Eye Dam. 1 - H318
STOT RE 2 - H373

Alcohols, C7-21 ethoxylated **1-5%**

CAS number: 68991-48-0

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318

(2-Methoxymethylethoxy)propanol **1-5%**

CAS number: 34590-94-8 EC number: 252-104-2 REACH registration number: 01-2119450011-60-XXXX

Substance with a Community workplace exposure limit.

Classification
Not Classified

Quaternary alkyl methyl amine ethoxylate methyl chloride **1-5%**

CAS number: 70750-47-9

M factor (Acute) = 1

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Acute 1 - H400

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 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.

Ingestion 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.

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Skin contact Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact 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

Eye contact Contact with concentrate or solution May cause severe eye irritation. May cause permanent damage if eye is not immediately irrigated.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with the following media: Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

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

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

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.

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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/m3 resp.dust 10 mg/m3 total dust
NUI = Nuisance Dust.

Disodium metasilicate

Short-term exposure limit (15-minute): SUP 2 mg/m³
SUP = Supplier's recommendation.

(2-Methoxymethylethoxy)propanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³
Sk

WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

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.

Colour Red.

Odour Tropical Lemon.

Odour threshold Not determined.

pH pH (diluted solution): 9.5

Initial boiling point and range Not applicable.

Evaporation rate Not determined.

Upper/lower flammability or explosive limits Not applicable.

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Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.0
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	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 May be corrosive to metals.

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 oxidising agents. Strong acids. Metals.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Ingestion may cause: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. May cause chemical burns in mouth and throat. Dust in high concentrations may irritate the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

Acute toxicity - oral

ATE oral (mg/kg) 11,655.01

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 30.12

Skin corrosion/irritation

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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 permanent damage if eye is not immediately irrigated.

Skin sensitisation

Skin sensitisation Contains Citral Limonene Linalool Geraniol

Germ cell mutagenicity

Genotoxicity - in vivo 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_{50} mg/kg)	2,800.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit

Disodium metasilicate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,280.0
Species	Rat

Sodium xylenesulphonate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	7,200.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit

Tetrasodium ethylene diamine tetraacetate

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Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,000.0
Species	Rat
ATE oral (mg/kg)	1,000.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l)	1.5

(2-Methoxymethylethoxy)propanol

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,135.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20.0
Species	Rabbit

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

Disodium metasilicate

Acute toxicity - fish	LC50, 96 hours: 210 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1700 mg/l, Daphnia magna

Tetrasodium ethylene diamine tetraacetate

Acute toxicity - fish	LC_{50}, 96 hours: > 100 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: > 100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: > 100 mg/l, Algae

(2-Methoxymethylethoxy)propanol

Acute toxicity - fish	LC_{50}, 96 hours: >10000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1919 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: >969 mg/l, Algae

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12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(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.

Ecological information on ingredients.

(2-Methoxymethylethoxy)propanol

Chemical oxygen demand 2.02

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient Not determined.

Ecological information on ingredients.

(2-Methoxymethylethoxy)propanol

Partition coefficient : 1.01

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

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IMDG packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

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) (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

General information Telephone 020 8974 1515

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 16/10/2015

Revision 3

Supersedes date 16/03/2015

Signature Aaron Saunders

Hazard statements in full H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.

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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.