



## 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 (EC 1272/2008)

**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.

## HEAT WAVE

### 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% 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

<p><b>Sodium carbonate</b> <span style="float: right;"><b>10-30%</b></span></p> <p>CAS number: 497-19-8                      EC number: 207-838-8                      REACH registration number: 01-2119485498-19-XXXX</p>
<p><b>Classification</b></p> <p>Eye Irrit. 2 - H319</p>
<p><b>Disodium metasilicate</b> <span style="float: right;"><b>5-10%</b></span></p> <p>CAS number: 6834-92-0                      EC number: 229-912-9                      REACH registration number: 01-2119449811-37-XXXX</p>
<p><b>Classification</b></p> <p>Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335</p>

## HEAT WAVE

<b>Tetrasodium ethylene diamine tetraacetate</b>	<b>1-5%</b>
CAS number: 64-02-8	EC number: 200-573-9
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Dam. 1 - H318 STOT RE 2 - H373	
<b>Alcohols, C7-21 ethoxylated</b>	<b>1-5%</b>
CAS number: 68991-48-0	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
<b>(2-Methoxymethylethoxy)propanol</b>	<b>1-5%</b>
CAS number: 34590-94-8	EC number: 252-104-2
	REACH registration number: 01-2119450011-60-XXXX
Substance with a Community workplace exposure limit.	
<b>Classification</b> Not Classified	
<b>Sodium xylenesulphonate</b>	<b>1-5%</b>
CAS number: 1300-72-7	EC number: 215-090-9
	REACH registration number: 01-2119513350-56-XXXX
<b>Classification</b> Eye Irrit. 2 - H319	
<b>Quaternary alkyl methyl amine ethoxylate methyl chloride</b>	<b>1-5%</b>
CAS number: 70750-47-9	
M factor (Acute) = 1	
<b>Classification</b> 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.

## HEAT WAVE

<b>Ingestion</b>	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.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	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

<b>Eye contact</b>	Contact with concentrate or solution May cause severe eye irritation. May cause permanent damage if eye is not immediately irrigated.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Specific treatments</b>	In the event of contact with eyes or ingestion seek immediate medical help. Rinse immediately with plenty of water.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with the following media: Water spray, dry powder or carbon dioxide.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Acids - organic.

### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	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.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	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.
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### 7.2. Conditions for safe storage, including any incompatibilities

## HEAT WAVE

**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.

### 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/m<sup>3</sup> resp.dust 10 mg/m<sup>3</sup> total dust  
NUI = Nuisance Dust.

#### Disodium metasilicate

Short-term exposure limit (15-minute): SUP 2 mg/m<sup>3</sup>  
SUP = Supplier's recommendation.

#### (2-Methoxymethylethoxy)propanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m<sup>3</sup>  
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

<b>Appearance</b>	Powder.
<b>Colour</b>	Red.
<b>Odour</b>	Tropical Lemon.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (diluted solution): 9.5
<b>Initial boiling point and range</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.

## HEAT WAVE

<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.0
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	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

## HEAT WAVE

### Skin corrosion/irritation

**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<sub>50</sub> mg/kg)** 2,800.0

**Species** Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

#### Disodium metasilicate

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,280.0

**Species** Rat

#### Tetrasodium ethylene diamine tetraacetate

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> 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

## HEAT WAVE

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,135.0

Species Rat

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 20.0

Species Rabbit

### Sodium xylenesulphonate

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 7,200.0

Species Rat

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

Species Rabbit

### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 6.41

Species Rat

ATE inhalation (dusts/mists mg/l) 6.41

## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Ecological information on ingredients.

#### Disodium metasilicate

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 210 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 1700 mg/l, Daphnia magna

#### Tetrasodium ethylene diamine tetraacetate

Acute toxicity - fish LC<sub>50</sub>, 96 hours: > 100 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: > 100 mg/l, Algae

#### (2-Methoxymethylethoxy)propanol



## HEAT WAVE

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >10000 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1919 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: >969 mg/l, Algae

### 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)

## HEAT WAVE

**ADR/RID class** 8

**IMDG class** 8

### 14.4. Packing group

**ADR/RID packing group** III

**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 MARPOL and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## 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** 20/09/2016

**Revision** 4

**Supersedes date** 16/10/2015

**Signature** Aaron Saunders

**Please note:** Where abbreviations have been used elsewhere the full text has been written below, for the classification of the product please refer to section 2.

## HEAT WAVE

### 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.

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.