



## 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

###### Classification (67/548/EEC or 1999/45/EC)

Xi;R38,R41.

###### 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

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

### Physicochemical

May be corrosive to metals.

### 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 - < 15% EDTA and salts thereof, < 5% cationic surfactants, < 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

<b>Sodium carbonate</b>	<b>10-30%</b>
CAS number: 497-19-8    EC number: 207-838-8    REACH registration number: 01-2119485498-19-XXXX	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Irrit. 2 - H319	Xi;R36
<b>Disodium metasilicate</b>	<b>5-10%</b>
CAS number: 6834-92-0    EC number: 229-912-9	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C;R34 Xi;R37
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

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<b>Sodium xylenesulphonate</b> CAS number: 1300-72-7 EC number: 215-090-9	<b>5-10%</b>
<b>Classification</b> Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36.
<b>Tetrasodium ethylene diamine tetracetate</b> CAS number: 64-02-8 EC number: 200-573-9	<b>5-10%</b>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22 Xi;R41
<b>Alcohols, C7-21 ethoxylated</b> CAS number: 68991-48-0 EC number: —	<b>1-5%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R38,R41.
<b>(2-Methoxymethylethoxy)propanol</b> CAS number: 34590-94-8 EC number: 252-104-2 Substance with a Community workplace exposure limit.	<b>1-5%</b>
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>Quaternary alkyl methyl amine ethoxylate methyl chloride</b> CAS number: 70750-47-9 EC number: — M factor (Acute) = 1	<b>1-5%</b>
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22. Xi;R38,R41. N;R50.
<b>Trisodium nitrilotriacetate</b> CAS number: 5064-31-3 EC number: 225-768-6	<b>&lt;0.2%</b>
<b>Classification</b> Carc. 2 - H351 Acute Tox. 4 - H302 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Carc. Cat. 3;R40 Xn;R22 Xi;R36

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

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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.

### 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

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### 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.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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## SECTION 8: Exposure Controls/personal protection

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### 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): IOELV 50 ppm 308 mg/m<sup>3</sup>  
Sk

IOELV = Indicative occupational exposure limit value.

Sk = Can be absorbed through 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.

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## SECTION 9: Physical and Chemical Properties

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### 9.1. Information on basic physical and chemical properties

#### Appearance

Powder.

#### Colour

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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.

### **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.

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## **SECTION 10: Stability and reactivity**

### **10.1. 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**

May be corrosive to metals.

### **10.4. 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**

## HEAT WAVE

Strong oxidising agents. Strong acids. Metals.

### **10.6. 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)**

11,337.86848073

#### **Acute toxicity - inhalation**

**ATE inhalation (dusts/mists mg/l)**

28.73563218

#### **Skin corrosion/irritation**

**Skin corrosion/irritation** Causes severe burns.

#### **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**

Contains Citral Limonene Linalool Geraniol

#### **Germ cell mutagenicity**

##### **Genotoxicity - in vivo**

No effects expected based upon current data.

##### **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 (LD50 mg/kg)**

2,800

##### **Species**

Rat

##### **Acute toxicity - dermal**

**Acute toxicity dermal (LD50 mg/kg)**

2000

##### **Species**

Rabbit

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### Disodium metasilicate

#### Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

1,280

#### Species

Rat

### Sodium xylenesulphonate

#### Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

7,200

#### Species

Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

2000

#### Species

Rabbit

### Tetrasodium ethylene diamine tetraacetate

#### Acute toxicity - oral

Acute toxicity oral (LD50 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 (LD50 mg/kg)

5,135

#### Species

Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

20

#### Species

Rabbit

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## SECTION 12: Ecological Information

### 12.1. Toxicity



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### Ecological information on ingredients.

#### Disodium metasilicate

##### **Acute toxicity - fish**

LC50, 96 hours: 210 mg/l, Brachydanio rerio (Zebra Fish)

##### **Acute toxicity - aquatic invertebrates**

EC50, 48 hours: 1700 mg/l, Daphnia magna

#### Tetrasodium ethylene diamine tetraacetate

##### **Acute toxicity - fish**

LC50, 96 hours: > 100 mg/l, Fish

##### **Acute toxicity - aquatic invertebrates**

EC50, 48 hours: > 100 mg/l, Daphnia magna

##### **Acute toxicity - aquatic plants**

IC50, 72 hours: > 100 mg/l, Algae

#### (2-Methoxymethylethoxy)propanol

##### **Acute toxicity - fish**

LC50, 96 hours: >10000 mg/l, Fish

##### **Acute toxicity - aquatic invertebrates**

EC50, 48 hours: 1919 mg/l, Daphnia magna

##### **Acute toxicity - aquatic plants**

IC50, 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

The product is not bioaccumulating.

#### **Partition coefficient**

Not determined.

### Ecological information on ingredients.

#### (2-Methoxymethylethoxy)propanol

##### **Partition coefficient**

: -0.35

### 12.4. Mobility in soil

#### **Mobility**

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

None known.

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### 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
IMDG packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

None.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

##### 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	16/03/2015
Revision	2

## HEAT WAVE

**Supersedes date** 13/11/2012

**Signature** Aaron Saunders

**Risk phrases in full**

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.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.

### Disclaimer

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.