

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

1.1. Product identifier

Product form : Mixture
Product name : Wessex Powerflush Descaler Extra
Product code : WP 1308
Type of product : acids
Product group : Blend

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

1.2.1. Relevant identified uses

Main use category : Professional use
Industrial/Professional use spec : For professional use only
Industrial
Use of the substance/mixture : Cleaning of closed heating systems

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wessex Chemical Factors
9, Crane Way, Woolsbridge Ind. Park,
BH21 6FA Wimborne - United Kingdom
T 0044 1202 823699 - F 0044 1202 813863
info@wessexchemicalfactors.co.uk - www.wessexchemicalfactors.co.uk

1.4. Emergency telephone number

Emergency number : 0044 7973629367

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1A H314

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

C; R35

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
Precautionary statements (CLP) : P260 - Do not breathe spray
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective clothing
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER/doctor/...

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P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
phosphoric acid ... %, orthophosphoric acid ... % (Component)	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	30 - 50	C; R34
Citric acid	(CAS No) 5949-29-1 (EC no) 201-069-1	3 - 10	Xi; R36
sulphamic acid	(CAS No) 5329-14-6 (EC no) 226-218-8 (EC index no) 016-026-00-0	1 - 3	Xi; R36/38 R52/53

Name	Product identifier	Specific concentration limits
phosphoric acid ... %, orthophosphoric acid ... % (Component)	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	(10 =< C < 25) Xi; R36/38 (C >= 25) C; R34

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
phosphoric acid ... %, orthophosphoric acid ... % (Component)	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	30 - 50	Skin Corr. 1B, H314
Citric acid	(CAS No) 5949-29-1 (EC no) 201-069-1	3 - 10	Eye Irrit. 2, H319
sulphamic acid	(CAS No) 5329-14-6 (EC no) 226-218-8 (EC index no) 016-026-00-0	1 - 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

Name	Product identifier	Specific concentration limits
phosphoric acid ... %, orthophosphoric acid ... % (Component)	(CAS No) 7664-38-2 (EC no) 231-633-2 (EC index no) 015-011-00-6	(10 =< C < 25) Skin Irrit. 2, H315 (10 =< C < 25) Eye Irrit. 2, H319 (C >= 25) Skin Corr. 1B, H314

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries : Causes severe skin burns and eye damage.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

No additional information available

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5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak without risks if possible.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid contact during pregnancy/while nursing.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Alkali. Keep container closed when not in use.
- Incompatible products : Strong bases.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)		
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ (8 hours)
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³ (15 minutes)

8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure. Safety glasses. Gloves.
- Hand protection : Wear protective gloves
- Eye protection : Chemical goggles or face shield
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : Wear appropriate mask



- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid

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Colour	: Green.
Odour	: mild.
Odour threshold	: No data available
pH	: 1
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ~ 1,4
Solubility	: soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
LD50 oral rat	1530 mg/kg
sulphamic acid (5329-14-6)	
LD50 oral rat	3160 mg/kg
Citric acid (5949-29-1)	
LD50 oral	5400 mg/kg oral-mouse

Skin corrosion/irritation	: Causes severe skin burns and eye damage. Causes severe skin burns and eye damage pH: 1
Serious eye damage/irritation	: Eye damage, category 1, implicit Causes severe skin burns and eye damage pH: 1
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met

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Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

sulphamic acid (5329-14-6)	
LC50 fishes 1	58,8 - 84 mg/l 96 hours
Citric acid (5949-29-1)	
LC50 fishes 1	440 mg/l (48 hours)
EC50 Daphnia 1	1535 mg/l (24 hours)
NOEC chronic algae	425 mg/l

12.2. Persistence and degradability

Wessex Powerflush Descaler Extra	
Persistence and degradability	Not established.
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
Persistence and degradability	Not established.
sulphamic acid (5329-14-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Citric acid (5949-29-1)	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

Wessex Powerflush Descaler Extra	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
Bioaccumulative potential	No bioaccumulation.
sulphamic acid (5329-14-6)	
Bioaccumulative potential	Not established.
Citric acid (5949-29-1)	
Log Kow	-1,8 - -0,2
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

12.4. Mobility in soil

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	
Ecology - soil	Product adsorbs onto the soil.

12.5. Results of PBT and vPvB assessment

Component	
phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)	PBT: not relevant – no registration required
sulphamic acid (5329-14-6)	PBT: not relevant – no registration required
Citric acid (5949-29-1)	PBT: not relevant – no registration required

12.6. Other adverse effects

Additional information	: Avoid release to the environment
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number

- UN-No. (ADR) : 3264
- UN-No. (IMDG) : 3264
- UN-No.(IATA) : 3264
- UN-No.(ADN) : Not applicable
- UN-No. (RID) : 3264

14.2. UN proper shipping name

- Proper Shipping Name (ADR) : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
- Proper Shipping Name (IMDG) : Not applicable
- Proper Shipping Name (IATA) : Not applicable
- Proper Shipping Name (ADN) : Not applicable
- Proper Shipping Name (RID) : Not applicable
- Transport document description (ADR) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS phosphoric acid ... %, orthophosphoric acid ... %(7664-38-2), sulphamic acid(5329-14-6)), 8, III, (E)
- Transport document description (IMDG) : UN 3264, 8

14.3. Transport hazard class(es)

ADR

- Transport hazard class(es) (ADR) : 8
- Danger labels (ADR) : 8



IMDG

- Transport hazard class(es) (IMDG) : 8

IATA

- Transport hazard class(es) (IATA) : 8

ADN

- Transport hazard class(es) (ADN) : Not applicable

RID

- Transport hazard class(es) (RID) : 8
- Danger labels (RID) : 8



14.4. Packing group

- Packing group (ADR) : III
- Packing group (IMDG) : Not applicable
- Packing group (IATA) : Not applicable
- Packing group (ADN) : Not applicable

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Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : C1
Special provision (ADR) : 274
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subjected to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. 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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
Wessex Powerflush Descaler Extra is not on the REACH Candidate List
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - slightly hazardous to water

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases::

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A

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Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects
R34	Causes burns
R35	Causes severe burns
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
C	Corrosive
Xi	Irritant

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product