

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS Ref.: Periodic review of SDS 8/16/2021

Date of issue: 10/30/2013 Revision date: 8/16/2018 Supersedes: 12/2/2016 Version: 1.3

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

: WP 1308 Product code

Type of product : Aqueous mixture based on :Mineral acids,Organic acids

Product group · Blend

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

1.2.1. Relevant identified uses

: Professional use Main use category

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 Ltd

9 Crane Way, Woolsbridge Industrial Park, Three Legged Cross, Wimborne, Dorset

BH21 6FA - United Kingdom

T +44 (0) 1202 823 699 - F +44 (0) 1202 813 863

www.wessexchemicalfactors.co.uk

E-mail address of competent person responsible for the SDS: info@wessexchemicalfactors.co.uk

1.4. Emergency telephone number

: +44 7973629367 **Emergency number**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290 Skin corrosion/irritation, Category 1B H314

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)

GHS05

Signal word (CLP)

Hazardous ingredients : phosphoric acid ... %, orthophosphoric acid ... %

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP) : P234 - Keep only in original packaging.

P260 - Do not breathe spray, mist, vapours.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective clothing, eye protection, protective gloves.

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 .

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 doctor, a POISON CENTER.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in a corrosion-resistant container with a resistant inner liner.

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

Other hazards not contributing to the classification

: If the product is not neutralised, it may have harmful effects on the aquatic environment.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
phosphoric acid %, orthophosphoric acid % (Component) (Note B)	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24- XXXX	40 - 50	Met. Corr. 1, H290 Skin Corr. 1B, H314
citric acid	(CAS-No.) 5949-29-1 (EC-No.) 201-069-1 (REACH-no) 01-2119457026-42- XXXX	3 - 10	Eye Irrit. 2, H319
sulphamidic acid; sulphamic acid; sulfamic 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
Specific concentration limits:			
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 2,="" 25)="" <="" eye="" h319<br="" irrit.="">(10 =<c 2,="" 25)="" <="" h315<br="" irrit.="" skin="">(C >= 25) Skin Corr. 1B, H314</c></c>	

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

(REACH-no) 01-2119485924-24-

Full text of H-statements: 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). Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician

immediately.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a

physician immediately.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Call a physician immediately.

XXXX

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

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

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Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product itself does not burn. On contact with ordinary metals (steel, galvanized,

aluminium) corrosion may occur and generate highly flammable hydrogen gas.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and

eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. 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 : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not

breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

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. Store in corrosive resistant container with a resistant

inner liner. Keep only in original container. Store locked up

Incompatible products : Strong bases. Sodium hypochlorite.

Incompatible materials : Metals.

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)		
EU	Local name	Orthophosphoric acid
EU	IOELV TWA (mg/m³)	1 mg/m³

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phosphoric acid %, orthophosphoric acid % (7664-38-2)		
EU	IOELV STEL (mg/m³)	2 mg/m³
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom	Local name	Orthophosphoric acid
United Kingdom	WEL TWA (mg/m³)	1 mg/m³
United Kingdom	WEL STEL (mg/m³)	2 mg/m³
United Kingdom	Regulatory reference	EH40. HSE

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.

Hand protection:
Wear protective gloves.
Eye protection:
Chemical goggles or face shield. Safety glasses
Skin and body protection:
Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):







Environmental exposure controls:

Avoid release to the environment.

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
Colour : Green.
Odour : mild.

Odour threshold : No data available pH : No data available

pH solution : < 2

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available

Boiling point : $> 100 \, ^{\circ}\text{C}$

Flash point : No data available
Auto-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

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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

Contact with alkaline products gives exothermic reaction.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

When heated to decomposition, emits toxic fumes. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)	
LD50 oral rat	2065 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

citric acid (5949-29-1)	
LD50 oral rat	11700 mg/kg
LD50 oral	5400 mg/kg (mouse)
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation: Causes severe skin burns and eye damage.Additional information: Causes severe skin burns and eye damage.Serious eye damage/irritation: Serious eye damage, category 1, implicitAdditional information: Causes severe skin burns and eye damage.

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : 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.

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SECTION 12:	Ecological	information
12.1 Toyloity		

12.1. Toxicity Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

phosphoric acid %, orthophosphoric acid % (7664-38-2)		
LC50 fish 1	3 - 3.25 mg/l Bluegill, (Lepomis macrochirus)	
EC50 Daphnia 1	> 100 mg/l	
ErC50 (algae)	> 100 mg/l	
TLM fish 1	138 ppm Western mosquitofish (Gambusia affinis)	

sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)	
LC50 fish 1	70.3 mg/l fathead minnow, (Pimephales promelas)
EC50 Daphnia 1	71.6 mg/l
ErC50 (algae)	48 mg/l

citric acid (5949-29-1)	
LC50 fish 1	> 100 mg/l Fathead minnow, (P. promelas)
EC50 other aquatic organisms 1	> 50 mg/l (Zebra mussel D. polymorpha)
NOEC chronic algae	425 mg/l (Algae S. quadricauda)
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.

sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)	
Persistence and degradability	May cause long-term adverse effects in the environment

citric acid (5949-29-1)	
Persistence and degradability Readily 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.

sulphamidic acid; sulphamic acid; sulfamic ac	cid (5329-14-6)
Bioaccumulative potential	Does not significantly accumulate in organisms.

citric acid (5949-29-1)	
Log Kow	-1.80.2
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.	

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12.5. Results of PBT and vPvB assessment	
Component	
sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
citric acid (5949-29-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
phosphoric acid %, orthophosphoric acid % (7664-38-2)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
12.6. Other adverse effects	
Other adverse effects :	Before neutralisation the acidity of the product may represent a danger to aquatic organisms. May cause pH changes in aqueous ecological systems.
Additional information :	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste	treatment	t method	Is
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Ecology - waste materials

UN-No. (RID)

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging 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.

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN Humber	
UN-No. (ADR)	: 1805
UN-No. (IMDG)	: 1805
UN-No. (IATA)	: 1805
UN-No. (ADN)	: 1805

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PHOSPHORIC ACID, SOLUTION
Proper Shipping Name (IMDG) : PHOSPHORIC ACID SOLUTION
Proper Shipping Name (IATA) : Phosphoric acid, solution

Proper Shipping Name (ADN) : PHOSPHORIC ACID, SOLUTION Proper Shipping Name (RID) : PHOSPHORIC ACID, SOLUTION

Transport document description (ADR) : UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)
Transport document description (IMDG) : UN 1805 PHOSPHORIC ACID SOLUTION, 8, III
Transport document description (IATA) : UN 1805 Phosphoric acid, solution, 8, III

: 1805

Transport document description (ADN) : UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

Transport document description (RID) : UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR

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



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



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Transport hazard class(es) (IATA) : 8 Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8 Danger labels (ADN) : 8



RID

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



14.4. Packing group

Packing group (ADR) : 111 Packing group (IMDG) : 111 Packing group (IATA) : 111 Packing group (ADN) : III: III Packing group (RID)

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

: TP1

: 2R

80

1805

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C1 Limited quantities (ADR) : 51 Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

: MP19 Mixed packing provisions (ADR) Portable tank and bulk container instructions : T4 (ADR)

Portable tank and bulk container special provisions

(ADR)

Orange plates

EAC code

Tank code (ADR) : L4BN : AT Vehicle for tank carriage Transport category (ADR) : 3 Special provisions for carriage - Packages (ADR) : V12 Hazard identification number (Kemler No.) : 80

Tunnel restriction code (ADR) : E

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Transport by sea

Special provisions (IMDG) : 223 : P001, LP01 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1 EmS-No. (Fire) : F-A : S-B EmS-No. (Spillage) Stowage category (IMDG) : A

Properties and observations (IMDG) : Miscible in water. Mildly corrosive to most metals.

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 : 60L CAO max net quantity (IATA) Special provisions (IATA) : A3, A803 ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C1
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C1
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions : TP1

RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol 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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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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 H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
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.

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

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