

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

CHAMPION POOLSIDE DEEP CLEAN

Version 4.0

Print Date 2023/04/18

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MSDS code: MAAA929

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

1.1. Product identifier

Trade name : CHAMPION POOLSIDE DEEP CLEAN

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

Use of the Substance/Mixture : De-liming agent., industrial cleaning agent, rust remover

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited
Alpha House, Lawnswood Business Park
GB LS16 6QY Leeds
Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation S.I. 2019/720 (GB CLP)

Regulation S.I. 2019/720 (GB CLP)			
Hazard class	Hazard category	Target Organs	Hazard statements
Corrosive to metals	Category 1	---	H290
Acute toxicity (Oral)	Category 4	---	H302
Skin corrosion	Category 1	---	H314
Serious eye damage	Category 1	---	H318

For the full text of the H-Statements mentioned in this Section, see Section 16.


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Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9/10 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation S.I. 2019/720 (GB CLP)

Hazard symbols	:	
Signal word	:	Danger
Hazard statements	:	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Precautionary statements	:	
Prevention	:	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response	:	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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P390 Absorb spillage to prevent material damage.

Hazardous components which must be listed on the label:

II • phosphoric acid

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- formic acid
- Alcohols, C12-14, ethoxylated
- Alcohols, C9-11-iso-, C10-rich, ethoxylated (>2.5-5 EO)

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (Regulation S.I. 2019/720 (GB CLP))	
		Hazard class / Hazard category	Hazard statements
phosphoric acid			
Index-No. : 015-011-00-6	> 50 - < 100	Met. Corr.1	H290
CAS-No. : 7664-38-2		Acute Tox.4 Oral	H302
EC-No. : 231-633-2		Skin Corr.1B	H314
EU REACH- : 01-2119485924-24-xxxx		Eye Dam.1	H318
Reg. No.			
		specific concentration limit	
		Skin Irrit. 2; H315	
		10 - < 25 %	
		Eye Irrit. 2; H319	
		10 - < 25 %	
		Skin Corr. 1B; H314	
		>= 25 %	
		Acute toxicity estimate	
		Acute oral toxicity: 500 mg/kg	
		Acute dermal toxicity: 2740 mg/kg	
		Note B	

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formic acid

Index-No.	: 607-001-00-0	> 2.5 - < 10	Acute Tox.4 Oral	H302
CAS-No.	: 64-18-6		Skin Corr.1A	H314
EC-No.	: 200-579-1			

specific concentration limit

Skin Corr. 1A; H314

>= 90 %

Skin Corr. 1B; H314

10 - < 90 %

Eye Irrit. 2; H319

2 - < 10 %

Skin Irrit. 2; H315

2 - < 10 %

Acute toxicity estimate

Acute oral toxicity: 1200

mg/kg

Note B

Alcohols, C12-14, ethoxylated

CAS-No.	: 68439-50-9	> 0.1 - < 2.5	Acute Tox.4 Oral	H302
EC-No.	: 931-838-3		Eye Dam.1	H318
			Aquatic Chronic3	H412

Acute toxicity estimate

Acute oral toxicity: 300 mg/kg

Alcohols, C9-11-iso-, C10-rich, ethoxylated (>2.5-5 EO)

CAS-No.	: 78330-20-8	> 0.1 - < 2.5	Eye Dam.1	H318
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For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notes mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- | | |
|-------------------------|--|
| General advice | : Take off all contaminated clothing immediately. Effects may be delayed. Keep affected person under observation. |
| If inhaled | : In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately. |
| In case of skin contact | : Wash off immediately with soap and plenty of water. Call a physician immediately. |
| In case of eye contact | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do |

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NOT induce vomiting. Call a physician immediately.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂), extinguishing powder, Water jet.

Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Toxic gases/vapors

Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Specific extinguishing methods : Control smoke with water spray.

Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

6.2. Environmental precautions

Environmental : Do not flush into surface water or sanitary sewer system.

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Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	phosphoric acid	CAS-No. 7664-38-2
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL	Workers, Acute - local effects, Inhalation	: 2 mg/m ³
DNEL	Workers, Long-term - local effects, Inhalation	: 1 mg/m ³
DNEL	Workers, Long-term - systemic effects, Inhalation	: 10.7 mg/m ³
DNEL	Consumers, Long-term - local effects, Inhalation	: 0.36 mg/m ³
DNEL	Consumers, Long-term - systemic effects, Inhalation	: 4.57 mg/m ³
DNEL	Consumers, Long-term - systemic effects, Skin contact	: 0.1 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

No PNEC value was derived. :

Other Occupational Exposure Limit Values

UK. EH40 Workplace Exposure Limits (WELs), as amended, Time Weighted Average (TWA):
1 mg/m³

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
1 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
2 mg/m³
Indicative

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UK. EH40 Workplace Exposure Limits (WELs), as amended, Short Term Exposure Limit (STEL):

2 mg/m³, (15 minutes)

ELV (IE), Time Weighted Average (TWA):

1 mg/m³

Indicative OELV

ELV (IE), Short Term Exposure Limit (STEL):

2 mg/m³, (15 minutes)

Indicative OELV

Component:	formic acid	CAS-No. 64-18-6
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Other Occupational Exposure Limit Values

UK. EH40 Workplace Exposure Limits (WELs), as amended, Time Weighted Average (TWA):
5 ppm, 9.6 mg/m³

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):

5 ppm, 9 mg/m³

Indicative

ELV (IE), Time Weighted Average (TWA):

5 ppm, 9 mg/m³

Indicative OELV

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of brief exposure or low pollution use breathing filter apparatus.
Respiratory protection complying with EN 141.
In case of intensive or longer exposure use self-contained breathing apparatus.

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

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Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Protective gloves should be replaced at first signs of wear.

Material : Rubber gloves

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Impervious clothing
Chemical resistant apron

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: liquid
Physical state	: liquid
Colour	: light yellow
Odour	: characteristic
Odour Threshold	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: > 100 °C
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: 47 %(V)
Lower explosion limit / Lower flammability limit	: 15 %(V)
Flash point	: No data available
Auto-ignition temperature	: 500 °C
Decomposition temperature	: No data available

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Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	< 0 (20 °C)
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	28 hPa (20 °C)
Relative density	:	No data available
Density	:	1.5 g/cm ³ (20 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available

9.2 Other information

Explosives	:	Product is not explosive.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Advice	:	The product reacts with water and generates heat. Gives off hydrogen by reaction with metals.
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10.2. Chemical stability

Advice	:	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

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Hazardous reactions : Reacts with: alkalis Amines Metal oxides

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products : Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Data for the product

Acute toxicity

Oral

Acute toxicity estimate : 468.75 mg/kg) (Calculation method) Harmful if swallowed.

Inhalation

Acute toxicity estimate : > 20 mg/l (4 h; vapour) (Calculation method)

Dermal

No data available

Irritation

Skin

Result : Causes severe skin burns and eye damage.

Eyes

Result : Causes serious eye damage.

Sensitisation

No data available

CMR effects

CMR Properties

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Carcinogenicity : No data available

Mutagenicity : No data available

Reproductive toxicity : No data available

Specific Target Organ Toxicity

Single exposure

No data available

Repeated exposure

No data available

Other toxic properties

Repeated dose toxicity

No data available

Aspiration hazard

No data available

Component:	phosphoric acid	CAS-No. 7664-38-2
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Acute toxicity

Inhalation

|| No valid data available.

Dermal

|| LD50 : 2740 mg/kg (Rabbit)

Irritation

Skin

|| Result : corrosive effects (Rabbit; 24 h)

Eyes

|| Result : corrosive effects (Rabbit)

Sensitisation

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|| Result : No data available

CMR effects

CMR Properties

|| Carcinogenicity : It is not considered carcinogenic.
 || Mutagenicity : In vitro tests did not show mutagenic effects
 || Teratogenicity : Did not show teratogenic effects in animal experiments.
 || Reproductive toxicity : Animal testing did not show any effects on fertility.

Genotoxicity in vitro

|| Result : negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)
 negative (Bacterial Reverse Mutation Test; Escherichia coli; with and without metabolic activation) (OECD Test Guideline 471)
 negative (Chromosome aberration test in vitro; Human lymphocytes; with and without metabolic activation) (OECD Test Guideline 473)
 negative (In vitro gene mutation study in mammalian cells; mouse lymphoma cells; with and without metabolic activation) (OECD Test Guideline 476)

Teratogenicity

|| NOAEL : ≥ 410 mg/kg bw/day
 || Maternal NOAEL : ≥ 410 mg/kg bw/day
 || Develop. : (Rat, wistar)(Oral; 4.1, 19.0, 88.3, 410.0 mg/kg)(OECD Test Guideline 414)No adverse effectsRead-across (Analogy)

Reproductive toxicity

|| NOAEL : ≥ 500 mg/kg bw/day
 || F1 : (Rat, Sprague-Dawley, male and female)(Oral; 0, 125, 250, 500 mg/kg bw/day)(OECD Test Guideline 422)

Specific Target Organ Toxicity

Single exposure

|| Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

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|| Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Repeated dose toxicity

|| NOAEL : 250 mg/kg bw/day

|| (Rat)(Oral; 90-day) (OECD Test Guideline 422)

Aspiration hazard

|| Not applicable,

|| Component: formic acid CAS-No. 64-18-6

Acute toxicity

Inhalation

|| LC50 : 7.4 mg/l (Rat; 4 h)

Dermal

|| No data available

Irritation

Skin

|| Result : corrosive effects

Eyes

|| Result : corrosive effects

Sensitisation

|| Result : not sensitizing (Buehler Test; Guinea pig) (OECD Test Guideline 406)

CMR effects

Carcinogenicity

|| NOAEL : 2,000
(No negative effects., Rat, male and female; Test substance:

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|| Potassium acetate)(Oral; 0, 50, 400, 2000 mg/kg bw/day)(OECD Test Guideline 453)Read-across (Analogy)

CMR Properties

|| Carcinogenicity : Animal testing did not show any carcinogenic effects.
Read-across (Analogy)

|| Mutagenicity : In vitro tests did not show mutagenic effects
In vivo tests did not show mutagenic effects

|| Teratogenicity : Did not show teratogenic effects in animal experiments.
Read-across (Analogy)

|| Reproductive toxicity : Animal testing did not show any effects on fertility.

Genotoxicity in vitro

|| Result : negative (sister chromatid exchange assay; Human lymphocytes; no) (OECD Test Guideline 479)
negative (Bacterial Reverse Mutation Test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471)
negative (In vitro gene mutation study in mammalian cells; CHO (Chinese Hamster Ovary) cells; with and without metabolic activation) (OECD Test Guideline 476)
negative (sister chromatid exchange assay; Chinese hamster fibroblasts; with and without metabolic activation) (OECD Test Guideline 479)

Genotoxicity in vivo

|| Result : negative (Sex-linked recessive lethal (SLRL) test; Drosophila melanogaster (vinegar fly), male) (Oral;) (OECD Test Guideline 477)

Teratogenicity

|| NOAEL : 1,000 mg/kg bw/day

|| Maternal NOAEL : 1,000 mg/kg bw/day

|| Teratog. NOAEL : 1,000 mg/kg bw/day

|| Develop. NOAEL : 1,000 mg/kg bw/day

|| Embryo-Fetal NOAEL : 1,000 mg/kg bw/day

(Rabbit)(Oral; 0, 100, 300, 1000 mg/kg bw/day)(OECD Test Guideline 414)No adverse effectsRead-across (Analogy)

Reproductive toxicity

|| NOAEL : 1,000 mg/kg bw/day

|| Parent NOAEL : 1,000 mg/kg bw/day

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|| F1

(Two-generation reproductive toxicity; Rat, male and female)(Oral; 0, 100, 300, 1000 mg/kg bw/day)(OECD Test Guideline 416)No adverse effects

Specific Target Organ Toxicity

Single exposure

|| Remarks : No data available

Repeated exposure

|| Remarks : No data available

Other toxic properties

Aspiration hazard

|| Not applicable,

|| Component: Alcohols, C12-14, ethoxylated CAS-No. 68439-50-9

Acute toxicity

Inhalation

|| No data available

Dermal

|| No data available

Irritation

Skin

|| Result : No data available

Eyes

|| Result : No data available

Sensitisation

|| Result : No data available

CMR effects

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CMR Properties

|| Carcinogenicity : No data available
 || Mutagenicity : No data available
 || Reproductive toxicity : No data available

Specific Target Organ Toxicity

Single exposure

|| Remarks : No data available

Repeated exposure

|| Remarks : No data available

Other toxic properties

Aspiration hazard

|| No data available,

Component:	Alcohols, C9-11-iso-, C10-rich, ethoxylated (>2.5-5 EO)	CAS-No. 78330-20-8
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Acute toxicity

Dermal

|| LD50 : > 2000 mg/kg (Rat) Information given is based on data obtained from similar substances.

Irritation

Skin

|| Result : No skin irritation (Rabbit) Information given is based on data obtained from similar substances.

Eyes

|| Result : Risk of serious damage to eyes. (Rabbit) Information given is based on data obtained from similar substances.

Sensitisation

|| Result : not sensitizing (Guinea pig) Information given is based on data obtained from similar substances.

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CMR effects

CMR Properties

Mutagenicity : Ames test: negative
 Information given is based on data obtained from similar substances.

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: **phosphoric acid** CAS-No. 7664-38-2

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: **formic acid** CAS-No. 64-18-6

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: **Alcohols, C12-14, ethoxylated** CAS-No. 68439-50-9

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component: **phosphoric acid** CAS-No. 7664-38-2

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Acute toxicity

Fish

|| LC50 : 3 - 3.25 mg/l (Lepomis macrochirus; 96 h)

Toxicity to daphnia and other aquatic invertebrates

|| EC50 : > 100 mg/l (Daphnia magna (Water flea); 48 h) (static test; OECD Test Guideline 202)

algae

|| NOEC : 100 mg/l (Desmodesmus subspicatus; 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)
 || EC50 : > 100 mg/l (Desmodesmus subspicatus; 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

Bacteria

|| EC50 : > 1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)

|| Component: formic acid CAS-No. 64-18-6

Acute toxicity

Fish

|| LC50 : 46 - 100 mg/l (Leuciscus idus (Golden orfe); 96 h)

Toxicity to daphnia and other aquatic invertebrates

|| EC50 : 120 mg/l (Daphnia magna (Water flea); 48 h)

algae

|| EC50 : 26.9 mg/l (Scenedesmus subspicatus; 72 h)

Bacteria

|| NOEC : 72 mg/l (activated sludge; 13 d) (static test; End point: Respiration inhibition)

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Chronic toxicity

Aquatic invertebrates

|| NOEC : ≥ 100 mg/l (Daphnia magna (Water flea); 21 d) (semi-static test; End point: Reproduction; OECD Test Guideline 211)

|| Component: Alcohols, C12-14, ethoxylated CAS-No. 68439-50-9

Acute toxicity

Fish

|| : No data available

Toxicity to daphnia and other aquatic invertebrates

|| : No data available

algae

|| : No data available

Chronic toxicity

Long-term (chronic) aquatic hazard

|| Result : Harmful to aquatic life with long lasting effects.

|| Component: Alcohols, C9-11-iso-, C10-rich, ethoxylated (>2.5-5 EO) CAS-No. 78330-20-8

Acute toxicity

Fish

|| LC50 : $> 1 - 10$ mg/l (Cyprinus carpio (Carp); 96 h) (OECD Test Guideline 203) Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates

|| EC50 : $> 1 - 10$ mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202) Information given is based on data obtained from similar substances.

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algae

|| EC50 : > 1 - 10 mg/l (Desmodesmus subspicatus (green algae); 72 h)
(OECD Test Guideline 201) Information given is based on data
obtained from similar substances.

12.2. Persistence and degradability

Component:	phosphoric acid	CAS-No. 7664-38-2
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Persistence and degradability

Persistence

|| Result : (Related to: Water) Inorganic product which is not removable from
water by biological processes.

Biodegradability

|| Result : The methods for determining the biological degradability are not
applicable to inorganic substances.

Component:	formic acid	CAS-No. 64-18-6
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Persistence and degradability

Persistence

|| Result : No data available

Biodegradability

|| Result : 100 % (aerobic; Related to: O2 consumption; Exposure Time: 14
d)(OECD Test Guideline 301C) Readily biodegradable.

Component:	Alcohols, C12-14, ethoxylated	CAS-No. 68439-50-9
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Persistence and degradability

Persistence

|| Result : No data available

Biodegradability

|| Result : > 60 % (OECD Test Guideline 301D)

Component:	Alcohols, C9-11-iso-, C10-rich, ethoxylated (>2.5-5 EO)	CAS-No. 78330-20-8
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Persistence and degradability

Biodegradability

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Result	:	> 70 % (Exposure Time: 28 d)(OECD Test Guideline 301A)Readily biodegradable.Information given is based on data obtained from similar substances.
Result	:	> 60 % (Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.Information given is based on data obtained from similar substances.

12.3. Bioaccumulative potential

Component:	phosphoric acid	CAS-No. 7664-38-2
Bioaccumulation		

|| Result : Not relevant

Component:	formic acid	CAS-No. 64-18-6
Bioaccumulation		

|| Result : Bioaccumulation is not expected.

Component:	Alcohols, C12-14, ethoxylated	CAS-No. 68439-50-9
Bioaccumulation		

|| Result : No data available

12.4. Mobility in soil

Component:	phosphoric acid	CAS-No. 7664-38-2
Mobility		

|| Water : The product is water soluble.
|| Air : Low volatile liquid

Component:	formic acid	CAS-No. 64-18-6
Mobility		

|| Water : The product is water soluble.

Component:	Alcohols, C12-14, ethoxylated	CAS-No. 68439-50-9
Mobility		

|| : No data available

12.5. Results of PBT and vPvB assessment

Data for the product

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Results of PBT and vPvB assessment

- Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component: phosphoric acid **CAS-No. 7664-38-2**

Results of PBT and vPvB assessment

- Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component: formic acid **CAS-No. 64-18-6**

Results of PBT and vPvB assessment

- Result : No data available

Component: Alcohols, C12-14, ethoxylated **CAS-No. 68439-50-9**

Results of PBT and vPvB assessment

- Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Data for the product

- Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
- Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: phosphoric acid **CAS-No. 7664-38-2**

- Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component: formic acid **CAS-No. 64-18-6**

- Endocrine disrupting potential : No information available about endocrine disruption properties for

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potential environment.

Component:	Alcohols, C12-14, ethoxylated	CAS-No. 68439-50-9
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Endocrine disrupting potential	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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12.7. Other adverse effects

Data for the product

Additional ecological information

Result	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Harmful effects to aquatic organisms due to pH-shift.
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Result	:	
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Component:	phosphoric acid	CAS-No. 7664-38-2
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Additional ecological information

Result	:	Harmful effects to aquatic organisms also due to pH-shift. Solutions with low pH-value must be neutralized before discharge.
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Component:	formic acid	CAS-No. 64-18-6
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Additional ecological information

Result	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
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Component:	Alcohols, C12-14, ethoxylated	CAS-No. 68439-50-9
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Additional ecological information

Result	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Harmful to aquatic life with long lasting effects.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.
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Contaminated packaging	:	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
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European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number or ID number

|| 3264

14.2. UN proper shipping name

|| **ADR** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Phosphoric acid, Formic acid)
|| **RID** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Phosphoric acid, Formic acid)
|| **IMDG** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Phosphoric acid, Formic acid)

14.3. Transport hazard class(es)

|| ADR-Class : 8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code)
8; C1; 80; (E)
|| RID-Class : 8
(Labels; Classification Code; Hazard Identification Number)
8; C1; 80
|| IMDG-Class : 8
(Labels; EmS)
8; F-A, S-B

14.4. Packaging group

|| ADR : III
|| RID : III
|| IMDG : III

14.5. Environmental hazards

|| Environmentally hazardous according to ADR : no
|| Environmentally hazardous according to RID : no
|| Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

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14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Component:	phosphoric acid	CAS-No. 7664-38-2
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : Point Nos.: , 3; Listed
Point Nos.: , 75; Listed

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 231-633-2; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended : WGK 1: slightly hazardous to water: 392

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Component:	formic acid	CAS-No. 64-18-6
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EU. Regulation No : EC Number: , 200-579-1; Listed
 1451/2007 [Biocides],
 Annex I, OJ (L 325)

EU. Regulation No. : Maximum concentration in ready for use preparation: 0.5 %
 1223/2009 on cosmetic acid 14; All cosmetic products; See the text of the regulation for
 products, Annex V: List applicable exceptions or provisions.
 of Preservatives Allowed
 in Cosmetic Products

EU. Directive : ; The substance/mixture does not fall under this legislation.
 2012/18/EU (SEVESO
 III) on major accident
 hazards involving
 dangerous substances,
 Annex I

Germany. Ordinance on : WGK 1: slightly hazardous to water: 210
 Facilities Handling
 Substances that are
 Hazardous to Water,
 ((AwSV of 21 April 2017),
 UBA, BAnz AT), as
 amended

Component:	Alcohols, C12-14, ethoxylated	CAS-No. 68439-50-9
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EU. Regulation EC No. : ; The substance/mixture does not fall under this legislation.
 689/2008

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
 Marketing and Use
 Restrictions (Regulation
 1907/2006/EC)

EU. Directive : ; The substance/mixture does not fall under this legislation.
 2012/18/EU (SEVESO
 III) on major accident
 hazards involving
 dangerous substances,
 Annex I

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Germany. Ordinance on : WGK 2: obviously hazardous to water: 670
 Facilities Handling
 Substances that are
 Hazardous to Water,
 ((AwSV of 21 April 2017),
 UBA, BAnz AT), as
 amended

Component:	Alcohols, C9-11-iso-, C10-rich, ethoxylated (>2.5-5 EO)	CAS-No. 78330-20-8
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EU. Directive : ; The substance/mixture does not fall under this legislation.
 2012/18/EU (SEVESO
 III) on major accident
 hazards involving
 dangerous substances,
 Annex I

15.2. Chemical safety assessment

No data available

SECTION 16: Other information



Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Full text of the Notes referred to under section 3.

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.
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Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand

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CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

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UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	<p>The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.</p> <p>The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>

|| Indicates updated section.