

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: Periodic review of SDS 26/008/2025
Issue date: 14/04/2021 Revision date: 26/08/2022 Supersedes version of: 09/06/2021 Version: 1.5

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

1.1. Product identifier

Product form Mixture

Product name Proflush Marine Engine Descaler

Product code WP 2101

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

Main use category : Professional use Industrial/Professional use spec

: Industrial

For professional use only

Use of the substance/mixture : Engine descaler

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 17 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 (0) 1202 823 699 (Office hours only 9am - 5pm Monday - Thursday, 9am - 4pm Friday.) **Emergency number**

+44 (0) 7973629367 (Out of hours 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 Acute toxicity (oral), Category 4 H302 Skin corrosion/irritation, Category 1, Sub-Category 1B H314 Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-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 GHS07

: Danger Signal word (CLP)

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Contains : phosphoric acid 81%, orthophosphoric acid 81%

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

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower. Immediately call a 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

doctor

P390 - Absorb spillage to prevent material damage.

2.3. Other hazards

Other hazards which do not result in classification : If the product is not neutralised, it may have harmful effects on the aquatic environment.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
phosphoric acid 81%, orthophosphoric acid 81% (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 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
citric acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3 REACH-no: 01-2119457026- 42-XXXX	3 – 5	Eye Irrit. 2, H319 STOT SE 3, H335
sulphamidic acid; sulphamic acid; sulfamic acid	CAS-No.: 5329-14-6 EC-No.: 226-218-8 EC Index-No.: 016-026-00-0 REACH-no: 01-2119488633- 28-XXXX	1 – 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558- 25-XXXX	0.3 – 0.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
benzotriazole	CAS-No.: 95-14-7 EC-No.: 202-394-1	0.01 – 0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
phosphoric acid 81%, orthophosphoric acid 81% (Component)	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6 REACH-no: 01-2119485924- 24-XXXX	(10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314

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.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general :	Call a physician immediately. 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 :	Call a physician immediately. Remove person to fresh air and keep comfortable for
	breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact :	Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a
	physician immediately. Immediately call a POISON CENTER/doctor.
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.

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

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

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Burns. Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

First-aid measures after ingestion

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

Unsuitable extinguishing media : Do not use a heavy water stream.

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.

: Rinse mouth. Call a physician immediately. Do NOT induce vomiting.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

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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. Avoid contact with skin and eyes. Do not breathe spray, mist,

vapours. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper

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.

Absorb spillage to prevent material damage.

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

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

breathe mist, spray, vapours. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

product. Always wash hands after handling the product. Wash Both hands thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original

container. Store locked up. Keep only in the original container in a cool, well ventilated place

away from : Direct sunlight. Keep container closed when not in use.

Incompatible products : Strong bases. Sodium hypochlorite. Strong acids. Incompatible materials : Metals. Sources of ignition. Direct sunlight.

Packaging materials : Store in corrosive resistant container with a resistant inner liner.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Orthophosphoric acid	
IOEL TWA	1 mg/m³	
IOEL STEL	2 mg/m³	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Orthophosphoric acid	
WEL TWA (OEL TWA) [1]	1 mg/m³	
WEL STEL (OEL STEL)	2 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
United Kingdom - Occupational Exposure Limits		
Local name	Propan-2-ol	
WEL TWA (OEL TWA) [1]	999 mg/m³	
WEL TWA (OEL TWA) [2]	400 ppm	
WEL STEL (OEL STEL)	1250 mg/m³	
WEL STEL (OEL STEL) [ppm]	500 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

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

Personal protective equipment symbol(s):









8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. Safety glasses

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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 : red. 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 °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.

Partition coefficient n-octanol/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

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.

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10.3. Possibility of hazardous reactions

Contact with alkaline products gives exothermic reaction.

10.4. Conditions to avoid

High temperature. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Additional information

Carcinogenicity

metals. Strong acids. Strong bases. May be corrosive to metals.

10.6. Hazardous decomposition products

When heated to decomposition, emits toxic fumes. Phosphorus oxides. fume. Carbon monoxide. Carbon dioxide. Corrosive vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified: Not classified	
Proflush Marine Engine Descaler		
ATE CLP (oral)	636.2 mg/kg bodyweight	
phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)		
LD50 oral rat	301 mg/kg	
LD50 dermal rabbit	2750 mg/kg	
sulphamidic acid; sulphamic acid; sul	famic acid (5329-14-6)	
LD50 oral rat	2140 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other:	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
citric acid (77-92-9)		
LD50 oral rat	11700 mg/kg	
LD50 oral	5400 mg/kg bodyweight Animal: (mouse)	
LD50 dermal rat	> 2000 mg/kg bodyweight	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	12800 mg/kg	
LC50, male, female, Inhalation, rat	> 10000 ppm (6 Hours, (OECD 403 method))	
benzotriazole (95-14-7)		
LD50 oral rat	500 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation	: Causes severe skin burns.	
Serious eye damage/irritation	: Causes serious 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	

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: Not classified

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

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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

NOAEL (animal/female, F1) 500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4

(Reproduction and Fertility Effects)

STOT-single exposure : Not classified

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

citric acid (77-92-9)

STOT-single exposure May cause respiratory irritation.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

STOT-single exposure May cause drowsiness or dizziness.

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

sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)

Viscosity, kinematic Not applicable

citric acid (77-92-9)

Viscosity, kinematic Not applicable

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Viscosity, kinematic 3.115 mm²/s

Potential adverse human health effects and : Harmful if swallowed.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

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

Ecology - water : Phosphoric acid rapidly dissociates to soluble inorganic orthophosphate in wastewater, sewerage systems and natural waters. When released to the environment, phosphates may

act as a plant nutrient and contribute to excessive algal growth, de-oxygenation of water

and precipitate heavy metals.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term : Not c

(chronic)

: Not classified

phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)	
LC50 - Fish [1]	3 – 3.25 mg/l Bluegill, (Lepomis macrochirus)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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 Test organisms (species): Pimephales promelas

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C50 - Crustacea [1]	71.6 mg/l Test organisms (species): Daphnia magna	
C50 72h - Algae [1]	48 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 72h - Algae [2]	33.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
LOEC (chronic)	34 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	19 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	≥ 60 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'	
citric acid (77-92-9)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Fathead minnow, (P. promelas)	
EC50 - Other aquatic organisms [1]	> 50 mg/l Test organisms (species): (Zebra mussel D. polymorpha)	
NOEC chronic algae	425 mg/l Test organisms (species): (Algae S. quadricauda)	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
LC50 - Fish [1]	9640 mg/l Test organisms (species): Fathead minnow (Pimephales promelas)	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): (Desmodesmus subspicatus)	
EC50, daphnia, short term	9714 mg/l (24 Hours, (OECD 202 method))	
EC5, microorganisms, Pseudomonas putida	1050 mg/l (16 Hours)	
benzotriazole (95-14-7)		
LC50 - Fish [1]	55 mg/l Test organisms (species): Cyprinodon variegatus	
LC50 - Fish [2]	180 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	137 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
NOEC chronic crustacea	0.97 mg/l	
NOEC chronic algae	1.18 mg/l	

Proflush Marine Engine Descaler	
Persistence and degradability	Not established.
phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)	
Persistence and degradability	Readily biodegradable.
sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.
citric acid (77-92-9)	
Persistence and degradability	Readily biodegradable.
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Biochemical oxygen demand (BOD)	1.19 – 1.72 g O₂/g substance
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance

12.3. Bioaccumulative potential

Proflush Marine Engine Descaler		
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).	
phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)		
Bioaccumulative potential	No bioaccumulation data available.	
sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)		
Bioaccumulative potential	Does not significantly accumulate in organisms.	
citric acid (77-92-9)		
Partition coefficient n-octanol/water (Log Kow)	-1.8 – -1.6	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Partition coefficient n-octanol/water (Log Pow)	0.05	
Bioaccumulative potential	No bioaccumulation.	

12.4. Mobility in soil

phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)	
Ecology - soil	Product adsorbs onto the soil.
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Surface tension	22.7 mN/m
Ecology - soil	Very mobile. Soluble material/quickly disperses in water.

12.5. Results of PBT and vPvB assessment

Component	
phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)	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
citric acid (77-92-9)	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
sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)	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
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	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

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

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citric acid (77-92-9)	
Dissociation constant	pKa = 3.13, 4.76 and 6.4 at 25°C

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

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

IMDG	IATA	ADN	RID
UN 1805	UN 1805	UN 1805	UN 1805
g name			
PHOSPHORIC ACID SOLUTION	Phosphoric acid, solution	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
ption			
UN 1805 PHOSPHORIC ACID SOLUTION, 8, III	UN 1805 Phosphoric acid, solution, 8, III	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III
lass(es)			
8	8	8	8
8	8	8	8
			<u>I</u>
III	III	III	III
ards			
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
	UN 1805 g name PHOSPHORIC ACID SOLUTION ption UN 1805 PHOSPHORIC ACID SOLUTION, 8, III lass(es) 8 III ards Dangerous for the environment: No	UN 1805 UN 1805 UN 1805 Phosphoric acid, solution Phosphoric acid, solution UN 1805 PHOSPHORIC ACID SOLUTION, 8, III UN 1805 Phosphoric acid, solution, 8, III Ill III III Dangerous for the environment: No UN 1805 Phosphoric acid, solution, 8, III Dangerous for the environment: No	UN 1805 UN 1805 UN 1805 UN 1805 UN 1805 UN 1805 PHOSPHORIC ACID SOLUTION PHOSPHORIC ACID SOLUTION UN 1805 PHOSPHORIC ACID SOLUTION, 8, III UN 1805 Phosphoric acid, ac

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

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions (ADR) : T4 : TP1 Portable tank and bulk container special provisions

(ADR)

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

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Orange plates :

80 1805

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

Transport by sea

: 223 Special provisions (IMDG) Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B 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 CAO max net quantity (IATA) : 60L 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

Safety Data Sheet

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Safety Data Sheet

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

Abbreviations and acronyms:	
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

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:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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.