



KilrockPRO® Limescale & Rust Remover

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 06/12/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : KilrockPRO® Limescale & Rust Remover
Product group : End product

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

Relevant identified uses

Main use category : Industrial use, Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier

Kilrock Products Ltd
Unit 1b, Alma Road Industrial Estate
HP5 3HB Chesham, Bucks
United Kingdom
T +44(0)1494 793900
info@kilrock.co.uk

Only Representative

V.J. Salomone Consumer Lines Limited
79 Simpson Street
MRS 1606 Marsa
Malta
T +356 22983228
info@vjsalomone.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor
Republic of Ireland	Poisons Information Centre of Ireland (ROI)	National Poisons Information Centre, Beaumont Hospital, Beaumont Road, Dublin 9.	+ 353 (1) 809 2166	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319

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

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Adverse physicochemical, human health and environmental effects

Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	CITRIC ACID MONOHYDRATE (5949-29-1), Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9), PHOSPHORIC ACID ...% (7664-38-2)(¹), Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5), Sulphamic Acid (5329-14-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	CITRIC ACID MONOHYDRATE (5949-29-1), Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9), PHOSPHORIC ACID ...% (7664-38-2)(¹), Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5), Sulphamic Acid (5329-14-6)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	CITRIC ACID MONOHYDRATE (5949-29-1), Sulphamic Acid (5329-14-6), Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9), Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5), PHOSPHORIC ACID ...% (7664-38-2)(¹)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CITRIC ACID MONOHYDRATE	CAS-No.: 5949-29-1 EC-No.: 201-069-1 REACH-no: 01-2119457026-42	> 5 - < 8	Eye Irrit. 2, H319
Sulphamic Acid	CAS-No.: 5329-14-6 EC-No.: 226-218-8 EC Index-No.: 016-026-00-0 REACH-no: 01-2119488633-28	< 2	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Alcohols, C11-14-iso-, C13-rich, ethoxylated	CAS-No.: 78330-21-9 EC-No.: 934-084-3	< 2	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 Aquatic Chronic 3, H412
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	CAS-No.: 68955-55-5 EC-No.: 931-341-1 REACH-no: 01-2119489396-21	< 0.5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
PHOSPHORIC ACID ...% substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6 REACH-no: 01-2119485924-24	< 0.1	Skin Corr. 1B, H314

Specific concentration limits:

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

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 after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Get medical advice/attention. Rinse mouth out with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person.

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

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

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. Use extinguishing media appropriate for surrounding fire.

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

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO₂). Sulphur oxides. Nitrogen oxides (NO_x) (as NO₂).

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Keep upwind.

Firefighting instructions : Contain and collect extinguishing water. Cool containers / tanks with spray water if possible.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : If spilled, may cause the floor to be slippery. Keep unnecessary and unprotected personnel away from the spillage. Stop leak if safe to do so.

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin, eyes and clothing.

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".

6.2. Environmental precautions

Discharge to atmosphere in large quantities should be avoided.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Prevent from spreading.

Methods for cleaning up : Small spills: Wipe off as much as possible (using a clean, soft, absorbent material). Clean contaminated articles and floor. In case of large spillages: Take up liquid spill into absorbent material. Mechanically recover the product. Clean contaminated surfaces with an excess of water.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours.
- Hygiene measures : 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

- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep only in original container. Do not store near heat sources or expose to high temperatures. Protect from sunlight. extreme temperatures.
- Incompatible materials : See Section 10.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
- Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
- Storage area : indoor.

Germany

Storage class (LGK, TRGS 510)

: LGK 12 - Non-combustible liquids

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.3, LGK 5.1C

Joint storage permitted for

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

(7664-38-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Orthophosphoric acid
IOEL TWA	1 mg/m ³
IOEL STEL	2 mg/m ³
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Orthophosphoric acid
WEL TWA (OEL TWA)	1 mg/m ³
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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DNEL and PNEC

(5329-14-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70.5 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17.4 mg/m³
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.8 mg/l
PNEC aqua (marine water)	0.18 mg/l
PNEC aqua (intermittent, freshwater)	0.48 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	8.36 mg/kg dwt
PNEC sediment (marine water)	0.84 mg/kg dwt
PNEC (Soil)	
PNEC soil	5 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	2 mg/l
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

If there is a risk of liquid being splashed : Chemical goggles or face shield

Skin protection

Skin and body protection:

If there is a risk of liquid being splashed : Wear suitable protective clothing

Hand protection:

Prolonged and/or repeated handling: Protective gloves against chemicals (EN 374). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Consult glove manufacturer's product information on material suitability and material thickness. Gloves must be replaced after each use and whenever signs of wear or perforation appear

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Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Appearance	: Clear liquid.
Odour	: citrus-like.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: ≈ 4
Viscosity, kinematic	: Not available
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect from sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon monoxide. Carbon dioxide. Sulphur oxides. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5)

LD50 oral rat	> 2820 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)

Sulphamic Acid (5329-14-6)

LD50 oral rat	1450 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: ≈ 4

CITRIC ACID MONOHYDRATE (5949-29-1)

pH	pH (diluted solution): 1.7 @ 100g/l
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Sulphamic Acid (5329-14-6)

pH	1.18
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Serious eye damage/irritation : Causes serious eye irritation.
pH: ≈ 4

CITRIC ACID MONOHYDRATE (5949-29-1)

pH	pH (diluted solution): 1.7 @ 100g/l
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Sulphamic Acid (5329-14-6)

pH	1.18
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Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5)

NOAEL (animal/male, F0/P)	100 mg/kg OECD 422
NOAEL (animal/female, F0/P)	100 mg/kg OECD 422
NOAEL (animal/male, F1)	25 mg/kg unpublished study
NOAEL (animal/female, F1)	25 mg/kg unpublished study

Sulphamic Acid (5329-14-6)

NOAEL (animal/female, F1)	500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects)
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STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Sulphamic Acid (5329-14-6)

NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight/day (OECD 408 method)
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

PHOSPHORIC ACID ...% (7664-38-2)

EC50 - Crustacea [1]	> 100 mg/l Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5)

LC50 - Fish [1]	1.26 mg/l (96h; Oncorhynchus mykiss (rainbow trout); OECD 203; Unpublished internal reports)
EC50 - Crustacea [1]	2.4 mg/l (48 h; Daphnia magna (Water flea); OECD 202; Unpublished reports)
EC50 72h - Algae [1]	0.19 mg/l (72 h; Pseudokirchneriella subcapitata; Unpublished reports; tested on C12-C14)
NOEC (chronic)	24 mg/l (18 h; Pseudomonas putida; Unpublished reports; tested on C12-C14)
NOEC chronic fish	0.42 mg/l (Pimephales promelas (fathead minnow); Unpublished reports; tested on C12-C14)
NOEC chronic crustacea	0.7 mg/l (21 d; Daphnia magna (Water flea); OECD 211; Unpublished reports; tested on C12-C14)
NOEC chronic algae	0.067 mg/l (28 d; Periphyton communities (microcosm); Unpublished reports; tested on C12-C14)

Sulphamic Acid (5329-14-6)

LC50 - Fish [1]	70.3 mg/l Pimephales promelas
EC50 - Crustacea [1]	71.6 mg/l Daphnia magna (Water flea) , 48h
EC50 - Other aquatic organisms [1]	200 mg/l activated sludge
EC50 72h - Algae [1]	48 mg/l 72 h; Desmodesmus subspicatus (OECD 201)
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'

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12.2. Persistence and degradability

KilrockPRO® Limescale & Rust Remover

Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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CITRIC ACID MONOHYDRATE (5949-29-1)

Persistence and degradability	Readily biodegradable.
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Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9)

Persistence and degradability	Readily biodegradable.
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PHOSPHORIC ACID ...% (7664-38-2)

Persistence and degradability	Substance is inorganic.
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Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5)

Persistence and degradability	Readily biodegradable.
Additional information	ECHA (European Chemicals Agency)

Sulphamic Acid (5329-14-6)

Persistence and degradability	Substance is inorganic.
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12.3. Bioaccumulative potential

CITRIC ACID MONOHYDRATE (5949-29-1)

Partition coefficient n-octanol/water (Log Kow)	-1.6
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Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9)

Partition coefficient n-octanol/water (Log Pow)	5.15 25 °C
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PHOSPHORIC ACID ...% (7664-38-2)

Bioaccumulative potential	not expected.
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Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5)

Partition coefficient n-octanol/water (Log Pow)	< 2.7 at 20 °C
Bioaccumulative potential	Low bioaccumulation potential.

Sulphamic Acid (5329-14-6)

Partition coefficient n-octanol/water (Log Pow)	0 at 20 °C
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

KilrockPRO® Limescale & Rust Remover

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

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	CITRIC ACID MONOHYDRATE (5949-29-1), Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9), PHOSPHORIC ACID ...% (7664-38-2)(¹), Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5), Sulphamic Acid (5329-14-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	CITRIC ACID MONOHYDRATE (5949-29-1), Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9), PHOSPHORIC ACID ...% (7664-38-2)(¹), Amines, C12-18(even numbered)-alkyldimethyl, N-oxides (68955-55-5), Sulphamic Acid (5329-14-6)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Handle uncleaned empty containers as full ones.

Sewage disposal recommendations : Avoid direct discharge into drains.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

HP Code : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

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Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	KILROCK Power Spray Limescale Remover ; CITRIC ACID MONOHYDRATE ; Alcohols, C11-14-iso-, C13-rich, ethoxylated ; PHOSPHORIC ACID ...%	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Alcohols, C11-14-iso-, C13-rich, ethoxylated	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 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 the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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National regulations

Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)

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Abbreviations and acronyms:

TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
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
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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

The classification complies with : ATP 12

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.