

CHEMOTEC GmbH
63486 Bruchköbel

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

1.1 Product identifier

rea-phos

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company CHEMOTEC GmbH
 Blochbachstrasse 40
 63486 Bruchköbel / GERMANY
 Phone +49(0)6181 / 72668
 Fax +49(0)6181 / 77652
 Homepage www.chemotec.de
 E-mail info@chemotec.de

Address enquiries to

Technical information info@chemotec.de
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Corr. 1A: H314 Causes severe skin burns and eye damage.
 Met. Corr. 1: H290 May be corrosive to metals.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

Potassium hydroxide
 sodium etasulfate
 Phosphoric alkyl esters (C6-10)

Hazard statements

H314 Causes severe skin burns and eye damage.
 H290 May be corrosive to metals.

Precautionary statements

P260 Do not breathe mist / vapours / spray.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.
 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 [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER / doctor / ...
 P390 Absorb spillage to prevent material damage.
 P501 Dispose of contents/container in accordance with local/national regulation.

Cleaner, 648/2004/CE, contains:

< 5% phosphonates
 < 5% non-ionic surfactants
 < 5% nitrilotriacetic acid
 < 5% anionic surfactant

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2.3 Other hazards

Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - <10	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
5 - <10	Potassium hydroxide CAS: 1310-58-3, EINECS/ELINCS: 215-181-3, EU-INDEX: 019-002-00-8, Reg-No.: 01-2119487136-33-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1A: H314 - Met. Corr. 1: H290
1 - <5	Trisodium nitrilotriacetate CAS: 5064-31-3, EINECS/ELINCS: 225-768-6, EU-INDEX: 607-620-00-6, Reg-No.: 01-2119519239-36-XXXX GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Carc. 2: H351 SCL [%]: 5: Carc. 2
1 - <5	sodium etasulfate CAS: 126-92-1, EINECS/ELINCS: 204-812-8, Reg-No.: 01-2119971586-23-XXXX GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 SCL [%]: >= 20: Eye Dam. 1, >=10 - <20: Eye Irrit. 2
1 - <5	Phosphoric alkyl esters (C6-10) CAS: 68307-94-8, EINECS/ELINCS: 269-616-7 GHS/CLP: Skin Corr. 1B: H314
1 - <3	Isotridecanol, ethoxylated CAS: 9043-30-5, EINECS/ELINCS: 500-027-2 GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
1 - <3	(1-hydroxyethylidene)bisphosphonic acid, sodium salt CAS: 29329-71-3, EINECS/ELINCS: 249-559-4, Reg-No.: 01-2119510382-52-XXXX GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
 For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
Ingestion	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Nitrogen oxides (NO_x), carbon monoxide (CO).
Irritant gases/vapours.
Sulphur oxides (SO_x).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Use only in well-ventilated areas.
Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

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7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide alkali-resistant floor.
Prevent penetration into the ground.

Do not store together with acids.
Do not store together with food and animal food/diet.
Do not store together with metals.

Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Potassium hydroxide
CAS: 1310-58-3, EINECS/ELINCS: 215-181-3, EU-INDEX: 019-002-00-8, Reg-No.: 01-2119487136-33-XXXX
Short-term exposure (15-minute): 2 mg/m ³

DNEL

Substance
sodium etasulfate, CAS: 126-92-1
Industrial, dermal, Long-term - systemic effects: 4060 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 285 mg/m ³ .
general population, dermal, Long-term - systemic effects: 2440 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 85 mg/m ³ .
general population, oral, Long-term - systemic effects: 24 mg/kg bw/d.
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
Industrial, oral, 13 mg/kg/day.
general population, oral, Acute - local effects: 6,5 mg/kg/bw/day.
general population, oral, Long-term - systemic effects: 6,5 mg/kg/bw/day.
Trisodium nitrilotriacetate, CAS: 5064-31-3
Industrial, inhalative, Long-term - systemic effects: 3,5 mg/m ³ .
Industrial, inhalative, Acute - systemic effects: 5,25 mg/m ³ .
general population, oral, Acute - systemic effects: 0,5 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 0,5 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 1,75 mg/m ³ .
Potassium hydroxide, CAS: 1310-58-3
Industrial, inhalative, Long-term - local effects: 1 mg/m ³ .
general population, inhalative, Long-term - local effects: 1 mg/m ³ .
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
general population, dermal, Long-term - systemic effects: 319 mg/kg.
general population, oral, Long-term - systemic effects: 26 mg/kg.

PNEC

Substance
sodium etasulfate, CAS: 126-92-1
soil, 0,22 mg/kg dw.
freshwater, 0,1357 mg/l.
seawater, 0,01357 mg/l.
sewage treatment plants (STP), 1,5 mg/l.
sediment (seawater), 0,15 mg/kg dw.

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sediment (freshwater), 1,5 mg/kg dw.
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
oral (food), 12 g/kg.
sediment (seawater), 5,9 mg/kg sediment dw.
sediment (freshwater), 59 mg/kg sediment dw.
sewage treatment plants (STP), 20 mg/l.
seawater, 0,014 mg/l.
freshwater, 0,134 mg/l.
soil, 96 mg/kg ww.
Trisodium nitrilotriacetate, CAS: 5064-31-3
seawater, 0,093 mg/l.
soil, 0,182 mg/kg.
sediment (seawater), 0,364 mg/kg.
sediment (freshwater), 3,64 mg/kg.
oral (food), 0,2 mg/kg.
sewage treatment plants (STP), 540 mg/L.
freshwater, 0,93 mg/l.
Potassium hydroxide, CAS: 1310-58-3
There are no PNEC values established for the substance.,
Propan-2-ol, CAS: 67-63-0
freshwater, 141 mg/l.
sediment (freshwater), 552 mg/kg.
seawater, 141 mg/l.
sediment (seawater), 552 mg/kg.
sewage treatment plants (STP), 2251 mg/l.
soil, 28 mg/kg.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Long-sleeved work clothes.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	yellowish
Odor	characteristic
Odour threshold	not determined
pH-value	14
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	35, (no independent burn maintains)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,11
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids.
Reactions with light metals, with evolution of hydrogen.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

See SECTION 10.3.

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10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
LD50, oral, Rat: 500 - 2000 mg/kg bw.
sodium etasulfate, CAS: 126-92-1
LD50, oral, Rat: >2000 mg/kg.
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
LD50, oral, Rat: 1100 mg/kg bw.
Potassium hydroxide, CAS: 1310-58-3
LD50, oral, Rat: > 214 -< 333 mg/kg.
Propan-2-ol, CAS: 67-63-0
LD50, oral, Rat: 4570 mg/kg bw.
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
LD50, oral, Rat: >2000 mg/kg bw.

Acute dermal toxicity

Product
ATE-mix, dermal, Based on the available information, the classification criteria are not fulfilled.:
Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
LD50, dermal, Rat: > 2000 mg/kg bw.
sodium etasulfate, CAS: 126-92-1
LD50, dermal, Rat: >2000 mg/kg.
Trisodium nitrilotriacetate, CAS: 5064-31-3
LD50, dermal, Rabbit: > 10000 mg/kg.
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: 13400 mg/kg bw.

Acute inhalational toxicity

Product
ATE-mix, inhalative, Based on the available information, the classification criteria are not fulfilled.:
Substance
Trisodium nitrilotriacetate, CAS: 5064-31-3
LC50, inhalative, Rat: > 5 mg/l (4 h).
Propan-2-ol, CAS: 67-63-0
LC50, inhalative, Rat: 30 mg/L (4h).

Serious eye damage/irritation

Risk of serious damage to eyes.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:

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Gefahr ernster Augenschäden..
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
irritant.
Trisodium nitrilotriacetate, CAS: 5064-31-3
Rabbit: (Draize-Test).
irritant.
Potassium hydroxide, CAS: 1310-58-3
Ätzwirkung.
No information available.:
Propan-2-ol, CAS: 67-63-0
Rabbit: OECD 405.
irritant.
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
No information available.:

Skin corrosion/irritation

Product is caustic.

Based on the available information, the classification criteria are fulfilled.

Calculation method

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
dermal, Rabbit:
negative.
sodium etasulfate, CAS: 126-92-1
No information available.:
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3
Rabbit: (Draize-Test).
negative
Potassium hydroxide, CAS: 1310-58-3
Skin corrosive
No information available.:
Propan-2-ol, CAS: 67-63-0
No information available.:
negative
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
dermal, Rabbit: OECD 404.
irritant.

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
sodium etasulfate, CAS: 126-92-1
dermal, mouse:
negative
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3

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Guinea pig: (OECD 406).
negative
Potassium hydroxide, CAS: 1310-58-3
No information available.:
Propan-2-ol, CAS: 67-63-0
dermal, Guinea pig: OECD 406.
negative
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
dermal, Guinea pig: OECD 406.
negative.

Specific target organ toxicity — single exposure — Based on the available information, the classification criteria are not fulfilled.

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
sodium etasulfate, CAS: 126-92-1
No information available.:
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3
No information available.:
Potassium hydroxide, CAS: 1310-58-3
No information available.:
Propan-2-ol, CAS: 67-63-0
No information available.:
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
No information available.:

Specific target organ toxicity — repeated exposure — Based on the available information, the classification criteria are not fulfilled.

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
sodium etasulfate, CAS: 126-92-1
No information available.:
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3
No information available.:
Potassium hydroxide, CAS: 1310-58-3
No information available.:
Propan-2-ol, CAS: 67-63-0
OECD 451.
negative.
NOAEL, 5000 ppm.
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
oral, OECD 422.
negative.
NOAEL, 500 mg/kg bw/day.

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Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
sodium etasulfate, CAS: 126-92-1
OECD 476 In vitro Mammalian Cell Gene Mutation T.
negative.
OECD 473 In vitro Mammalian Chromosomal Aberrat.
negative.
OECD 471.
negative.
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3
Based on the available information, the classification criteria are not fulfilled.:
Potassium hydroxide, CAS: 1310-58-3
No information available.:
Propan-2-ol, CAS: 67-63-0
OECD 476.
negative.
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
OECD 471.
negative.

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
sodium etasulfate, CAS: 126-92-1
No information available.:
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3
Based on the available information, the classification criteria are not fulfilled.:
Potassium hydroxide, CAS: 1310-58-3
No information available.:
Propan-2-ol, CAS: 67-63-0
OECD 414.
negative.
NOAEL, 596 mg/kg bw/day.
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
oral, Rat: OECD 422.
negative.
NOAEL, 500 mg/kg bw/day.

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

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Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
sodium etasulfate, CAS: 126-92-1
Rat: > 1125 mg/kg (Expositionsdauer 730 d).
negative - Oral - TCLo.
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
No information available.:
Trisodium nitrilotriacetate, CAS: 5064-31-3
oral, Rat:
Suspected of causing cancer
Potassium hydroxide, CAS: 1310-58-3
No information available.:
Propan-2-ol, CAS: 67-63-0
OECD 451.
negative.
NOAEC, 12290 mg/m ³ .
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
No information available.:

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information**12.1 Toxicity**

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
LC50, (96h), Danio rerio: > 1 - 10 mg/l OECD 203.
EC50, (17h), Pseudomonas putida: >= 10 mg/l OECD 201.
EC50, (48h), Daphnia magna: 7,07 mg/l OECD 202.
EC50, (72h), Desmodesmus subspicatus: >= 10 mg/l OECD 201.
sodium etasulfate, CAS: 126-92-1
LC50, (96h), Danio rerio: >100 mg/l.
EC50, (3h), Activated sludge: >100 mg/l.
EC50, (72h), Desmodesmus subspicatus: >100 mg/l.
EC5, (48h), Daphnia magna: >100 mg/l.
(1-hydroxyethylidene)bisphosphonic acid, sodium salt, CAS: 29329-71-3
LC50, (96h), Oncorhynchus mykiss: > 100 mg/l (Lit.).
EC50, (96h), Daphnia magna: > 170 mg/l.
Trisodium nitrilotriacetate, CAS: 5064-31-3
LC50, (96h), Pimephales promelas: > 100 mg/l (APHA 1971).
EC50, (72h), Scenedesmus subspicatus: > 91,5 mg/l.
EC50, Pseudomonas fluorescens: 3200 - 5600 mg/l.
Potassium hydroxide, CAS: 1310-58-3
LC50, (24h), fish: 80 mg/L.
LC50, (24h), Gambusia affinis: 80 mg/l.
LC50, (24h), Poecilia reticulata: 165 mg/l.
EC50, (48h), Ceriodaphnia spec.: 40,4 mg/l.
Propan-2-ol, CAS: 67-63-0
LC50, (96h), Pimephales promelas: 9640 mg/L (Lit.).
EC50, (48h), Daphnia magna: 13299 mg/L (Lit.).
IC50, (72h), Desmodesmus subspicatus: >1000 mg/L (Lit.).
Phosphoric alkyl esters (C6-10), CAS: 68307-94-8
LC50, (48h), Leuciscus idus: 100 - 500 mg/L.

12.2 Persistence and degradability**Behaviour in environment compartments**

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

The surfactants contained in this preparation 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.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

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12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
 Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

200129*

Contaminated packaging

Uncontaminated packaging may be reused.
 Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances
 150102

SECTION 14: Transport information

14.1 UN number

Transport by land according to
 ADR/RID 1814

Inland navigation (ADN) 1814

Marine transport in accordance with
 IMDG 1814

Air transport in accordance with IATA 1814

rea-phos


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14.2 UN proper shipping name

Transport by land according to ADR/RID Potassium hydroxide solution
- Classification Code C5
- Label 
- ADR LQ 1 I
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN) Potassium hydroxide solution
- Classification Code C5
- Label 

Marine transport in accordance with IMDG Potassium hydroxide, solution
- EMS F-A, S-B
- Label 
- IMDG LQ 1 I

Air transport in accordance with IATA Potassium hydroxide solution
- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

14.4 Packing group

Transport by land according to ADR/RID II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	6 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H351 Suspected of causing cancer.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)
 Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)

Modified position

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.



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