

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Schmutz®Detektiv (321000792+321000793+323807896)

Revision date: 03.08.2023

Product code: 321000792+93+3807896

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

1.1. Product identifier

Schmutz®Detektiv (321000792+321000793+323807896)

UFI: 7DD0-205C-300W-37A5

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

Use of the substance/mixture

Cleaning agent.

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

Company name:	Eduard Lutz Schrauben-Werkzeuge GmbH	
Street:	Dieselstraße 15	
Place:	D-86368 Gersthofen	
Telephone:	+49 (0) 821/4989-0	Telefax: +49 (0) 821/4989-111
E-mail:	technischer-handel@lutzgruppe.de	
Contact person:	see section: "Department responsible for information:"	
E-mail:	produktmanagement@lutzgruppe.de	
Internet:	www.lutzgruppe.de	
Responsible Department:	Ansprechpartner: Herr Bablich, Herr Sturm, Herr Ravi, Herr Eberl	

1.4. Emergency telephone number:

+49(0)30-19240 Giftzentrale Berlin (24h)

Further Information

Follow the instructions for use on the label. To avoid risks to man and the environment, comply with the instructions for use.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290
Skin Corr. 1; H314
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Isotridecanol, ethoxylated
Potassium hydroxide

Signal word: Danger

Pictograms:



Hazard statements

H290 May be corrosive to metals.

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H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Additional advice on labelling

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

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H314

Precautionary statements

P260-P280-P301+P330+P331-P303+P361+P353-P305+P351+P338-P310

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Special danger of slipping by leaking/spilling product.

Process vapors can irritate airways, skin and eyes. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Wear suitable protective clothing, gloves and eye/face protection.

Packaging supplied to the general public must be fitted with child-resistant closures and a tactile warning of danger in accordance with section 3.1.1 and section 3.2.1 of Part 3 of Annex II to Regulation (EC) No 1272/2008, irrespective of its capacity.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous solution of the listed substances with harmless admixtures.

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
111-76-2	2-butoxyethanol			1 - < 10 %
	203-905-0		01-2119475108-36	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319			
7320-34-5	Tetrapotassium pyrophosphate			1 - < 5 %
	230-785-7		01-2119489369-18	
	Eye Irrit. 2; H319			
69011-36-5	Isotridecanol, ethoxylated			1 - < 3 %
	931-138-8			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
1310-58-3	Potassium hydroxide			0,5 - 2 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1; H290 H302 H314 H318			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
111-76-2	203-905-0	2-butoxyethanol	1 - < 10 %
		inhalation: LC50 = 3 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1200 mg/kg	
7320-34-5	230-785-7	Tetrapotassium pyrophosphate	1 - < 5 %
		inhalation: LC50 = > 1,1 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 300 - < 2000 mg/kg	
69011-36-5	931-138-8	Isotridecanol, ethoxylated	1 - < 3 %
		dermal: LD50 = ca. 5960 mg/kg; oral: LD50 = > 10000 mg/kg Eye Dam. 1; H318: >= 3 - 100 Eye Irrit. 2; H319: >= 1 - < 3	
1310-58-3	215-181-3	Potassium hydroxide	0,5 - 2 %
		oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2	

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % phosphates, < 5 % non-ionic surfactants, < 5 % amphoteric surfactants, perfumes.

Further Information

Substances listed on the so-called "Candidate List of Substances of Very High Concern (SVHC)" of the European Chemicals Agency (ECHA) are not intentional components of this product. It is therefore not expected that SVHC substances are contained in the product in quantities > 0.1%.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! In all cases of doubt, or when symptoms persist, seek medical advice. Take off immediately all contaminated clothing and wash it before reuse. Remove persons to safety. Keep away from unprotected people. Keep upwind. Ventilate affected area.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of breathing difficulties administer oxygen. If victim is at risk of losing consciousness, position and transport on their side.

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After contact with skin

After contact with skin, wash immediately with: Water. Take off immediately all contaminated clothing and wash it before reuse. Wash thoroughly the body (shower or bath). In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eyelids open. Protect the injured eye. Rinse also under the lid of the eyelid. Consult a doctor immediately. / Consult an ophthalmologist. (Special treatment) / If possible, visit an eye clinic. Do not leave affected person unattended.

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Do not leave affected person unattended. Call a physician immediately.

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

Causes burns. Risk of serious damage to eyes. If swallowed, strong caustic effect on mouth and throat and risk of perforation of the esophagus and stomach.

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

Cleaning agent, alkaline. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure. First Aid, decontamination, treatment of symptoms. After decontamination of the skin pain treatment and shock prophylaxis.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Foam. Water spray jet.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!). Heating causes rise in pressure with risk of bursting. Thermal decomposition can lead to the escape of irritating gases and vapors. In case of fire and/or explosion do not breathe fumes. In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Organic cracking products.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing. The product itself does not burn.

Additional information

Contaminated fire-fighting water must be collected separately. Dispose of fire residues and extinguishing water in accordance with official regulations. Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment. High slip hazard because of leaking or spilled product. Provide adequate ventilation. Avoid contact with skin, eyes, clothing. Do not breathe mist/vapours/spray.

For non-emergency personnel

Remove persons to safety. Keep away from unprotected people. Keep upwind.

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For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

Clean contaminated articles and floor according to the environmental legislation. Wash with plenty of water.

Other information

Ventilate affected area.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13.

Safe handling: see section 7. Personal protection equipment: see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

All work processes must always be designed so that the following is excluded: skin contact. Eye contact. inhalation. Keep only in the original container. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. The usual protective activities for handling chemicals should be noted.

Advice on protection against fire and explosion

Usual measures for fire prevention. The product is not: Combustible. The product develops hydrogen in an aqueous solution in contact with metals. Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

Advice on general occupational hygiene

Wash hands before breaks and after work. Restore grease film of the skin after cleansing by using a fat cream to prevent dermatitis. Do not eat, drink, smoke or sneeze at the workplace. Wear personal protection equipment. Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin and eyes.

Further information on handling

Store only in original container. During dilution or dissolving in water, strong heating-up always takes place.

When diluting/dissolving, always have the water ready first, then slowly stir in the product. Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep locked up and out of the reach of children. Keep only in the original container in a cool, well-ventilated place. The floor should be leak tight, jointless and not absorbent.

Suitable floor material: Alkali-resistant.

Alkalis (alkalis). Corrosive to metals.

Suitable material for Container: PE, PP, Glass.

storage temperature: > 0 - < 40 °C

Hints on joint storage

Materials to avoid: Acid. Aluminium. Oxidising agent.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against: heat. UV-radiation/sunlight. frost.

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7.3. Specific end use(s)

Stripper, corrosive, solvent-free. Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
111-76-2	2-Butoxyethanol	20	98		TWA (8 h)	
		50	246		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent			
DNEL type	Exposure route	Effect	Value	
111-76-2	2-butoxyethanol			
Worker DNEL, acute	inhalation	systemic	1091 mg/m ³	
Worker DNEL, long-term	inhalation	systemic	98 mg/m ³	
Worker DNEL, acute	inhalation	local	246 mg/m ³	
Worker DNEL, long-term	dermal	systemic	125 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	89 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	59 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	426 mg/m ³	
Consumer DNEL, acute	inhalation	local	147 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	75 mg/kg bw/day	
Consumer DNEL, acute	dermal	systemic	89 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	6,3 mg/kg bw/day	
Consumer DNEL, acute	oral	systemic	26,7 mg/kg bw/day	
7320-34-5	Tetrapotassium pyrophosphate			
Worker DNEL, long-term	inhalation	systemic	17,63 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	4,35 mg/m ³	
69011-36-5	Isotridecanol, ethoxylated			
Worker DNEL, long-term	inhalation	systemic	37 mg/m ³	
Worker DNEL, long-term	dermal	systemic	263 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	6,53 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	93,8 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day	
1310-58-3	Potassium hydroxide			
Worker DNEL, long-term	inhalation	local	1 mg/m ³	
Consumer DNEL, long-term	inhalation	local	1 mg/m ³	

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PNEC values

CAS No	Name of agent	
Environmental compartment		Value
111-76-2	2-butoxyethanol	
Freshwater		8,8 mg/l
Freshwater (intermittent releases)		26,4 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Secondary poisoning		20 mg/kg
Micro-organisms in sewage treatment plants (STP)		463 mg/l
Soil		2,33 mg/kg
69011-36-5	Isotridecanol, ethoxylated	
Freshwater		0,00436 mg/l
Freshwater (intermittent releases)		0,00544 mg/l
Marine water		0,000436 mg/l
Freshwater sediment		0,119 mg/kg
Marine sediment		0,012 mg/kg
Micro-organisms in sewage treatment plants (STP)		4,35 mg/l
Soil		0,021 mg/kg

Additional advice on limit values

Maximum Occupational Exposure Limits (MELVs) are considered to be safe exposure limits for a worker during an 8-hour shift (40-h week) as a time-weighted average value (TWA) or a 15-minute short-term exposure limit value (STEL).

CAS 111-76-2: STEL (EC) = 50 ppm, 246 mg/m³; TWA (EC) = 20 ppm, 98 mg/m³

H: skin resorptive;

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Provide earthing of containers, equipment, pumps and ventilation facilities. Have eye showers and safety shower ready.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. / Eye-shade. German Industry Norms (DIN) / European Norms (EN): EN 165, EN 166

Hand protection

Protect skin by using skin protective cream.

Tested protective gloves are to be worn: EN ISO 374

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Hand protection: Butyl rubber. NBR (Nitrile rubber). Neoprene rubber. CR (polychloroprenes, Chloroprene rubber).

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Thickness of glove material: $\geq 0,5$ mm

penetration time (maximum wearing period): 480 min

The most suitable glove should be chosen in consultation with the glove supplier / manufacturer who can provide information on the breakthrough time of the glove material. Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). EN 13034/6

Suitable protective clothing: Apron. Boots. Required properties: liquid proof. leachate-proof.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. EN 14387, Combination filtering device: A P2, Colour: brown white

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Thermal hazards

Closed containers may burst when pressure and temperature rise

Environmental exposure controls

Leakage into the environment must be prevented. Do not allow uncontrolled leakage of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	dark red
Odour:	fruity
Odour threshold:	not determined

Test method

Melting point/freezing point:	ca. - 5 °C	
Boiling point or initial boiling point and boiling range:	ca. 100 °C	
Flammability:	not applicable	non-flammable
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Flash point:	not relevant	
Auto-ignition temperature:	not applicable	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	12,6	DIN 19268
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	completely miscible	
Solubility in other solvents	not determined	
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,024 g/cm ³	ISO 387
Relative vapour density:	not determined	

9.2. Other information

Information with regard to physical hazard classes

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Explosive properties

not Explosive.

Self-ignition temperature

Solid:

not determined

Gas:

not determined

Oxidizing properties

not oxidizing.

Other safety characteristics

Evaporation rate:

not determined

Viscosity / dynamic:

ca. 50 mPa·s

(at 20 °C)

Further Information

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

Corrosive to metals.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reactions with: Strong acid. Oxidizing agents, strong.

Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

10.4. Conditions to avoid

heat. UV-radiation/sunlight. frost.

In case of exceeding the storage temperature: >40 °C Danger of bursting container.

10.5. Incompatible materials

Exothermic reactions with: Acid. Oxidizing agents, strong. Aluminium.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors. In case of fire and/or explosion do not breathe fumes.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

Organic cracking products.

Further information

Exothermic reactions with: Strong acid. Oxidizing agents, strong.

In case of exceeding the storage temperature: >40 °C Danger of bursting container.

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Acute toxicity

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

ATE_{mix} calculated

ATE (oral) 5026 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 30,30 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-butoxyethanol				
	oral	LD50 1200 mg/kg	ATE	ECHA	CLP / ATP 18
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1993)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 3 mg/l	ATE	ECHA	CLP / ATP 18
7320-34-5	Tetrapotassium pyrophosphate				
	oral	LD50 > 300 - < 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 420
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1988)	other: FMC Non-Definitive Dermal Toxicit
	inhalation (4 h) dust/mist	LC50 > 1,1 mg/l	Rat	Study report (1993)	other: FMC Acute Inhalation Toxicity Pro
69011-36-5	Isotridecanol, ethoxylated				
	oral	LD50 > 10000 mg/kg	Ratte	Study report (1986)	OECD Guideline 401
	dermal	LD50 ca. 5960 mg/kg	Kaninchen	Am. Ind. Hyg. Assoc. J.: 23(4), 95-107 (The LD50 was determined by a method clos
1310-58-3	Potassium hydroxide				
	oral	LD50 333 mg/kg	Rat	Fund. Appl. Toxicol., 8, 97-100 (1987)	OECD Guideline 425

Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)

Causes serious eye damage. (On basis of test data)

Corrosion: Classification is based on the pH value.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Sensitising effects

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

No sensitizing effect known.

Carcinogenic/mutagenic/toxic effects for reproduction

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

According to the current state of knowledge, no CMR effects known. The product contains no substances classified as CMR.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

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

Leakage into the environment must be prevented.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
111-76-2	2-butoxyethanol					
	Acute fish toxicity	LC50 1474 mg/l	96 h	Oncorhynchus mykiss	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 203
	Acute algae toxicity	ErC50 911 mg/l	72 h	Raphidocelis subcapitata	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 201
	Acute crustacea toxicity	EC50 1550 mg/l	48 h	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 202
	Fish toxicity	NOEC > 100 mg/l	21 d	Danio rerio	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 204
	Crustacea toxicity	NOEC 100 mg/l	21 d	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 211
7320-34-5	Tetrapotassium pyrophosphate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EPA OTS 797.1300
	Acute bacteria toxicity	(EC50 > 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
69011-36-5	Isotridecanol, ethoxylated					
	Acute fish toxicity	LL50 > 1,5 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 3,4 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	EU Method C.3
	Acute crustacea toxicity	EL50 0,64 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Algae toxicity	NOEC > 1 - 10 mg/l	3 d	Desmodesmus subspicatus (Grünalge)	SDS	OECD 201
	Crustacea toxicity	NOEC 0,218 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	(EC50 140 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (1997)	other: EG guideline 88/302/EG, adopted 1

12.2. Persistence and degradability

The surfactants contained in this mixture 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

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authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
69011-36-5	Isotridecanol, ethoxylated			
	OECD 301B	> 60 %	28	SDS
	Leicht biologisch abbaubar (nach OECD-Kriterien).			
	OECD 311	> 60 %	60	SDS
	Biologisch abbaubar.			

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol	0,81
69011-36-5	Isotridecanol, ethoxylated	6,4

BCF

CAS No	Chemical name	BCF	Species	Source
69011-36-5	Isotridecanol, ethoxylated	12,7	Pimephales promelas	REACH Registration D

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

The product leads to changes in the pH value of the test system. The result refers to an unneutralised sample. Adverse effects on aquatic organisms due to pH shift.

Further information

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system. Product may not be released into water without pre-treatment.
slightly hazardous to water (WGK 1)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Consult the appropriate authorities about waste disposal. Dispose of waste according to applicable legislation. Small amounts: Dilute added to the wastewater. Recommendation: Agree on the exact waste code with the disposal company.

List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - used product

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200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Clean with: Rinse with plenty of water. Cleaned containers may be recycled. Recycle sales packaging via DSD (Duales System Deutschland).

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C5
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C5
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Marine pollutant: Nein
Special Provisions: 223

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Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-B
 Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1814
14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 1 L
 Passenger LQ: Y841
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 852
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 856
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Stripper, corrosive, solvent-free. Wear personal protection equipment.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

Other applicable information

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): > 3 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

REACH Regulation (EC) No 1907/2006, as last amended by Commission Regulation (EU) 2022/586

CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2021/1962

The product meets the criteria laid down in the EC Detergents Regulation 648/2004.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße) IMDG: International Maritime Code for Dangerous Goods (Internationaler Seeschiffahrtscode für gefährliche Güter) IATA: International Air Transport Association (Internationaler Luftverkehrsverband) GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien EINECS: Europäisches Verzeichnis der auf dem Markt vorhandenen chemischen Stoffe ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Tödliche Konzentration, 50% LD50: Tödliche Dosis, 50% Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation

Key literature references and sources for data

Information from our suppliers as well as data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used for the preparation of this safety data sheet. Other sources: Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidance on the compilation of safety data sheets as amended (ECHA). Guidance on labelling and packaging under Regulation (EC) No 1272/2008 (CLP) as amended (ECHA). Safety data sheets of the ingredients. ECHA homepage - Information on chemicals. GESTIS substance database (Germany). Federal Environment Agency "Rigoletto" - Information page on water-polluting substances (Germany). EU occupational exposure limit values Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831 as amended. National occupational exposure limit value lists of the respective countries in the respective valid version. Regulations on the transport of dangerous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

Relevant H and EUH statements (number and full text)

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.
H331 Toxic if inhaled.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. This information is intended to give you indications for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal.

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The details are not transferable to other products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Gewerbliche Verwendung von Allzweckoberflächenreinigungsmitteln	-	8, 17	35	7, 8a, 8b, 10, 11, 13, 19	-	-	-	Reiniger

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)