according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



date of compilation: 02.06.2015

Revision: 09.11.2023

RBS® IND 470, Laboratory cleaning agent

article number: **TA00** Version: **3.0 en** Replaces version of: 21.04.2022 Version: (2)

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH) Unique formula identifier (UFI) **RBS® IND 470**, Laboratory cleaning agent

TA00

not relevant (mixture)

6FV3-9051-R00J-WX75

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

Relevant identified uses:

Uses advised against:

Cleaning agent Laboratory and analytical use Laboratory chemical

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	Skin corrosion/irritation	1A	Skin Corr. 1A	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

2.2 Label elements

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

Signal word Danger

Pictograms

GHS05



Hazard statements

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

Precautionary statements

Precautionary statements - prevention

P280 Wear protective gloves/eye protection/face protection

Precautionary statements - response

P301+P330+P331 P303+P361+P353	IF SWALLOWED: rinse mouth. Do NOT induce vomiting 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

Hazardous ingredients for labelling:

Potassium hydroxide, Isotridecanol, ethoxylated, Poly(oxy-1,2-ethanediyl), α -(2-ethylhexyl)- ω -hydroxy-, Hexyl D-glucoside

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



Causes severe skin burns and eve damage

H314	Causes severe skin burns and eye damage.
P280 P301+P330+P331	Wear protective gloves/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	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.
contains:	Potassium hydroxide, Isotridecanol, ethoxylated, Poly(oxy-1,2-ethanediyl), α-(2-ethylhexyl)-ω-hydroxy-, Hexyl D-glucoside

2.3 **Other hazards**

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of \ge 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\ge 0,1\%$.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Potassium hydroxide	CAS No 1310-58-3	< 10	Met. Corr. 1 / H290 Acute Tox. 4 / H302 Skin Corr. 1A / H314		GHS-HC
	EC No 215-181-3		Eye Dam. 1 / H318		
	Index No 019-002-00-8				
	REACH Reg. No 01-2119487136- 33-xxxx				
Hexyl D-glucoside	CAS No 54549-24-5	< 5	Eye Dam. 1 / H318	L P	
	EC No 259-217-6				
	REACH Reg. No 01-2119492545- 29-xxxx				
Poly(oxy-1,2-eth- anediyl), α-(2-ethyl-	CAS No 26468-86-0	< 5	Eye Dam. 1 / H318	L P	
hexyl)-ω-hydroxy-	EC No 607-943-2				
Isotridecanol, eth- oxylated	CAS No 69011-36-5	< 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		
	EC No 500-241-6				

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Potassium hy- droxide	CAS No 1310-58-3 EC No 215-181-3 Index No 019-002-00-8	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Dam. 1; H318: C ≥ 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %	-	333 ^{mg} / _{kg}	oral

For full text of abbreviations: see SECTION 16

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

4.2 Most important symptoms and effects, both acute and delayed

Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Ingredients of the mixture combustible. The product itself does not burn.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: **TA00**

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle and open container with care. Clear contaminated areas thoroughly.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Relevant DNELs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Potassium hydrox- ide	1310-58-3	DNEL	1 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Isotridecanol, eth- oxylated	69011-36-5	DNEL	294 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Isotridecanol, eth- oxylated	69011-36-5	DNEL	2.080 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl D-glucoside	54549-24-5	DNEL	420 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Hexyl D-glucoside	54549-24-5	DNEL	595.000 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0,015 ^{mg} / _l	aquatic organ- isms	water	intermittent re- lease
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0,074 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0,007 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Isotridecanol, eth- oxylated	69011-36-5	PNEC	1,4 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0,604 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0,06 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0,1 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Hexyl D-glucoside	54549-24-5	PNEC	111,1 ^{mg} / kg	aquatic organ- isms	water	short-term (single instance)
Hexyl D-glucoside	54549-24-5	PNEC	4,2 ^{mg} / _l	aquatic organ- isms	water	intermittent re- lease
Hexyl D-glucoside	54549-24-5	PNEC	0,176 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Hexyl D-glucoside	54549-24-5	PNEC	0,018 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Relevant PNECs of components								
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time		
Hexyl D-glucoside	54549-24-5	PNEC	100 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Hexyl D-glucoside	54549-24-5	PNEC	0,722 ^{mg} / ^{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Hexyl D-glucoside	54549-24-5	PNEC	0,072 ^{mg} / ^{kg}	aquatic organ- isms	marine sediment	short-term (single instance)		
Hexyl D-glucoside	54549-24-5	PNEC	0,654 ^{mg} / ^{kg}	terrestrial organ- isms	soil	short-term (single instance)		

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection. Wear face protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

material thickness

0,3 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	14 (20 °C)
Kinematic viscosity	not determined
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	23 hPa at 20 °C
Density and/or relative density	
Density	1,07 ^g / _{cm³} at 20 °C
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (liquid)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Other safety parameters	
Oxidising properties	none
Other information	
Information with regard to physical hazard classes:	
Corrosive to metals	category 1: corrosive to metals
Other safety characteristics:	
Miscibility	completely miscible with water
	Oxidising properties Other information Information with regard to physical hazard classes: Corrosive to metals Other safety characteristics:

SECTION 10: Stability and reactivity

10.1 Reactivity

Substance or mixture corrosive to metals.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

 Violent reaction with: Strong acid, Ammonium compounds, Azides, Alkaline earth metal, Halogenated hydrocarbons, Hydrocarbons, Metals, Phosphorus
 Dangerous/dangerous reactions with: Metals (due to the release of hydrogen in an acid/alkaline medium),
 => Explosion risk

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

aluminium, different metals, zinc, tin

Release of flammable materials with

Metals, Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Acute toxicity estimate (ATE) of components									
Name of substance CAS No Exposure route ATE									
Potassium hydroxide		1310-58-3		oral		333 ^{mg} / _{kg}			
Acute toxicity of components									
Name of substance	CAS N	lo Expos		Endpoint	Value	е	Species		

Name of substance	CAS NO	route	επαροιήτ	value	species
Potassium hydroxide	1310-58-3	oral	LD50	333 ^{mg} / _{kg}	rat
Isotridecanol, ethoxylated	69011-36-5	oral	LD50	>2.000 ^{mg} / _{kg}	rat
Isotridecanol, ethoxylated	69011-36-5	dermal	LD50	5.960 ^{mg} / _{kg}	rabbit

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

• If inhaled

Data are not available.

If on skin

causes severe burns, causes poorly healing wounds

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

• Other information

none

- **11.2** Endocrine disrupting properties Does not contain an endocrine disruptor (ED) in a concentration of $\ge 0,1\%$.
- **11.3** Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components							
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time		
Isotridecanol, eth- oxylated	69011-36-5	LL50	2,5 ^{mg} / _l	fish	96 h		
Isotridecanol, eth- oxylated	69011-36-5	EC50	1,5 ^{mg} / _l	aquatic invertebrates	48 h		
Hexyl D-glucoside	54549-24-5	LC50	420 ^{mg} / _l	fish	96 h		
Hexyl D-glucoside	54549-24-5	EC50	490 ^{mg} / _l	aquatic invertebrates	48 h		
Hexyl D-glucoside	54549-24-5	EL50	435 ^{mg} / _l	algae	72 h		

Aquatic toxicity (chronic) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Hexyl D-glucoside	54549-24-5	LC50	3,2 ^{mg} / _l	fish	28 d
Hexyl D-glucoside	54549-24-5	EC50	>1.000 ^{mg} / _l	microorganisms	4 h

12.2 Persistence and degradability

Degradability	Degradability of components						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source	
Isotridecanol, ethoxylated	69011-36-5	DOC removal	82 %	28 d		ECHA	
Hexyl D-glucos- ide	54549-24-5	oxygen deple- tion	71 %	28 d		ECHA	

12.3 Bioaccumulative potential

Data are not available.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Bioaccumulative potential of components						
Name of substance	CAS No	BCF	Log KOW	BOD5/COD		
Isotridecanol, ethoxylated	69011-36-5	232,5	4,9			
Hexyl D-glucoside	54549-24-5		1,72 (pH value: 6,5, 40 °C)			

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\ge 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

- **HP 4** irritant skin irritation and eye damage
- HP 8 corrosive

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

SEC	TION 14: Transport information	
14.1	UN number or ID number	
	ADR	UN 1814
	IMDG-Code	UN 1814
	ICAO-TI	UN 1814
14.2	UN proper shipping name	
	ADR	POTASSIUM HYDROXIDE SOLUTION
	IMDG-Code	POTASSIUM HYDROXIDE SOLUTION
	ICAO-TI	Potassium hydroxide solution
14.3	Transport hazard class(es)	
	ADR	8
	IMDG-Code	8
	ICAO-TI	8
14.4	Packing group	
	ADR	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be co	
14.7	Maritime transport in bulk according to IMO in:	struments
	The cargo is not intended to be carried in bulk.	
14.8	Information for each of the UN Model Regulation	ons
	Agreement concerning the International Carria information	ge of Dangerous Goods by Road (ADR)Additional
	Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
	Particulars in the transport document	UN1814, POTASSIUM HYDROXIDE SOLUTION, 8, II, (E)
	Classification code	C5
	Danger label(s)	8
	Excepted quantities (EQ)	E2

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

e number: TA00	
Hazard identification No	80
International Maritime Dangerous Goods	Code (IMDG) - Additional information
Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Particulars in the shipper's declaration	UN1814, POTASSIUM HYDROXIDE SOLUTION, II
Marine pollutant	-
Danger label(s)	8
Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	A
Segregation group	18 - Alkalis
International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information
Proper shipping name	Potassium hydroxide solution
Particulars in the shipper's declaration	UN1814, Potassium hydroxide solution, 8, II
Danger label(s)	8
Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
RBS® IND 470	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Hexyl D-glucoside	substances in tattoo inks and perman- ent make-up		R75	75
Poly(oxy-1,2-ethanediyl), α-(2-ethyl- hexyl)-ω-hydroxy-	substances in tattoo inks and perman- ent make-up		R75	75

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Г

Dangerous substances with restrictions (REACH, Annex XVII)						
Name of substance	Name acc. to inventory	CAS No	Restriction	Νο		
Potassium hydroxide	substances in tattoo inks and perman- ent make-up		R75	75		
Isotridecanol, ethoxylated	substances in tattoo inks and perman- ent make-up		R75	75		

Legend

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
Articles not complying with paragraph 1 shall not be placed on the market.
Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and — present an aspiration hazard and are labelled with H304.

present an aspiration nazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00



8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/	2012/18/EU (Seveso III)							
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes					
	not assigned							

Deco-Paint Directive

VOC content	4 %
VOC content (Water content was discounted)	280,4 ^g / _l

Industrial Emissions Directive (IED)

VOC content	4 %
VOC content (Water content was discounted)	280,4 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Potassium hydroxide	Metals and their compounds		a)	

Legend

a)

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status	
AU	AIIC	all ingredients are listed	
CA	DSL	all ingredients are listed	
CN	IECSC	all ingredients are listed	
EU	ECSI	not all ingredients are listed	
EU	REACH Reg.	not all ingredients are listed	
JP	CSCL-ENCS	not all ingredients are listed	
JP	ISHA-ENCS	not all ingredients are listed	
KR	KECI	all ingredients are listed	
MX	INSQ	not all ingredients are listed	
NZ	NZIoC	all ingredients are listed	
PH	PICCS	not all ingredients are listed	
TR	CICR	not all ingredients are listed	
TW	TCSI	all ingredients are listed	
US	TSCA	all ingredients are listed (ACTIVE)	

Legend

AIICAustralian Inventory of Industrial ChemicalsAIICAustralian Inventory and Control RegulationCICRChemical Inventory and Control RegulationCSCL-ENCSList of Existing and New Chemical Substances (CSCL-ENCS)DSLDomestic Substances List (DSL)ECSIEC Substance Inventory (EINECS, ELINCS, NLP)IECSCInventory of Existing Chemical SubstancesISHA-ENCSInventory of Existing and New Chemical Substances (ISHA-ENCS)KECIKorea Existing Chemicals InventoryNZIoCNew Zealand Inventory of ChemicalsPICCSPhilippine Inventory of Chemicals and Chemical Substances (PICCS)REACH Reg.REACH registered substance InventoryTSCAToxic Substance Control Act

15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	VOC content: 4 % 280,4 ^g / _l	VOC content: 4 %	yes
15.1		VOC content (Water content was discounted): 280,4 ^g / _l	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: Chemical safety assessments for substances in this mixture were not carried out.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Abbr.	Descriptions of used abbreviations
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



RBS® IND 470, Laboratory cleaning agent

article number: TA00

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	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.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.