



SPAM plus Universalreiniger

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

1.1. Product identifier

SPAM plus Universalreiniger

Further trade names

SPAM+ Universalreiniger;

SPAM + Universal Cleaner;

SPAM plus Universal Cleaner

UFI: HVVQ-NM2Y-EY77-1XRT

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

Use of the substance/mixture

Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

Company name: SCHOLL Concepts GmbH

Polish & Pad Manufaktur

Street: Maybachstrasse 7

Place: D-71686 Remseck

Telephone: +49 (0) 7141 29299 - 0

Telefax: +49 (0) 7141 29299 - 10

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Internet: www.schollconcepts.com

1.4. Emergency telephone number: +49 (0) 89 19240 (Giftnotruf Technische Universität München)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

according to Regulation (EC) No 1907/2006

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

according to Regulation (EC) No 1907/2006

Hazard components for labelling

1-Heptanol, 2-propyl-, 7EO

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides

Long chain alkoxyated alcohol C10 polymer

Signal word: Danger



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Pictograms:



Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.

P264 Wash hands and body thoroughly after handling.

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

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

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

P501 Dispose of waste according to applicable legislation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (according to Regulation (EC) No 1907/2006)			
111-76-2	2-butoxyethanol			1 - < 5 %
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319			
160875-66-1	1-Heptanol, 2-propyl-, 7EO			1 - < 5 %
	605-233-7			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
1554325-20-0	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides			1 - < 5 %
	810-152-7			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318			
166736-08-9	Long chain alkoxyated alcohol C10 polymer			1 - < 5 %
	Acute Tox. 4, Eye Dam. 1; H302 H318			
7320-34-5	tetrapotassium pyrophosphate			1 - < 5 %
	230-785-7		01-2119489369-18	
	Eye Irrit. 2; H319			

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 - < 5 %
		inhalation: ATE 3 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: ATE 1200 mg/kg	
160875-66-1	605-233-7	1-Heptanol, 2-propyl-, 7EO	1 - < 5 %
		oral: LD50 = >2000 mg/kg	
1554325-20-0	810-152-7	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	1 - < 5 %
		oral: LD50 = 300-2000 mg/kg	
166736-08-9		Long chain alkoxyated alcohol C10 polymer	1 - < 5 %
		oral: LD50 = >200 mg/kg	
7320-34-5	230-785-7	tetrapotassium pyrophosphate	1 - < 5 %
		dermal: LD50 = >7940 mg/kg; oral: LD50 = >2000 mg/kg	

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

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



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

IF exposed or concerned: Call a doctor. When in doubt or if symptoms are observed, get medical advice.
Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Dry extinguishing powder. Carbon dioxide (CO₂). Water spray jet. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, corrosive

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For non-emergency personnel

Remove all sources of ignition. Remove persons to safety. Ventilate affected area. Wear personal protection equipment (refer to section 8).

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Use personal protection equipment. Wear anti-static footwear and clothing. Tested protective gloves must be worn: Material, alkali-resistant

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Cover drains. Collect spillage. Collect in closed and suitable containers for disposal.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Use non-sparking tools. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Handle and open container with care.

Advice on protection against fire and explosion

No special fire protection measures are necessary. Only use the material in places where open light, fire and other flammable sources can be kept away.

Advice on general occupational hygiene

Wear protective gloves/protective clothing and eye protection/face protection. Take off contaminated clothing and wash it before reuse. When using do not smoke. When using do not eat or drink. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Draw up and observe skin protection

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programme.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

Do not store together with: Oxidising agent. Strong acid. Strong alkali.

Further information on storage conditions

Recommended storage temperature: 15-25°C

7.3. Specific end use(s)

Automotive care products

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift



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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
111-76-2	2-butoxyethanol		
Worker DNEL, acute	inhalation	systemic	1091 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	59 mg/m ³
Consumer DNEL, acute	inhalation	local	147 mg/m ³
Consumer DNEL, long-term	oral	systemic	6,3 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	98 mg/m ³
Worker DNEL, long-term	inhalation	local	246 mg/m ³
Consumer DNEL, acute	inhalation	systemic	426 mg/m ³
Consumer DNEL, acute	oral	systemic	26,7 mg/kg bw/day
7320-34-5	tetrapotassium pyrophosphate		
Consumer DNEL, long-term	oral	systemic	>70 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	2,79 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,68 mg/m ³

PNEC values

CAS No	Substance	
Environmental compartment	Value	
111-76-2	2-butoxyethanol	
Freshwater	8,8 mg/l	
Marine water	0,88 mg/l	
Freshwater sediment	34,6 mg/kg	
Marine sediment	3,46 mg/kg	
Secondary poisoning	0,02 mg/kg	
Micro-organisms in sewage treatment plants (STP)	463 mg/l	
Soil	2,33 mg/kg	
7320-34-5	tetrapotassium pyrophosphate	
Freshwater	0,05 mg/l	
Freshwater (intermittent releases)	0,5 mg/l	
Marine water	0,005 mg/l	
Micro-organisms in sewage treatment plants (STP)	50 mg/l	

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8.2. Exposure controls



Appropriate engineering controls

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection. Suitable eye protection: Eye glasses with side protection (EN 166)

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. 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. Tested protective gloves must be worn.

Recommended glove articles: Rotiprotect Nitril eco, Thickness of the glove material 0,1 mm, level 1 < 10 min. (DIN EN 374)).

Skin protection

Wear suitable protective clothing.

Respiratory protection

Warning! In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

No special environmental measures are necessary. Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	white
Odour:	perfumed
Melting point/freezing point:	<0 °C
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	not applicable not applicable
Lower explosion limits:	not determined



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Upper explosion limits:	not determined
Flash point:	>100 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	11,4
Viscosity / kinematic: (at 40 °C)	<20,5 mm ² /s
Water solubility: (at 20 °C)	completely miscible
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	not determined
Density (at 20 °C):	1,015-1,025 g/cm ³
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
Not oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5. Incompatible materials

Oxidising agent. Strong acid. Strong alkali.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in CLP Regulation



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Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-butoxyethanol				
	oral	ATE 1200 mg/kg			
	dermal	LD50 >2000 mg/kg	Rat	ECHA	OECD 402
	inhalation vapour	ATE 3 mg/l			
160875-66-1	1-Heptanol, 2-propyl-, 7EO				
	oral	LD50 >2000 mg/kg	Rat	literature value	
1554325-20-0	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides				
	oral	LD50 300-2000 mg/kg	Rat		literature value
166736-08-9	Long chain alkoxyated alcohol C10 polymer				
	oral	LD50 >200 mg/kg	Rat	literature value	
7320-34-5	tetrapotassium pyrophosphate				
	oral	LD50 >2000 mg/kg	Rat	IUCLID	
	dermal	LD50 >7940 mg/kg	Rabbit		

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction



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Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

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.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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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 mg/l	1474	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA OECD 203
	Acute algae toxicity	ErC50 mg/l	720 mg/l	96 h	Pseudokirchneriella subcapitata	ECHA OECD 201
	Acute crustacea toxicity	EC50 mg/l	1800	48 h	Daphnia magna (Big water flea)	ECHA OECD 202
160875-66-1	1-Heptanol, 2-propyl-, 7EO					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss (Rainbow trout)	literature value
	Acute algae toxicity	ErC50 mg/l	10-100	72 h	Desmodesmus subspicatus	literature value
	Acute crustacea toxicity	EC50 mg/l	10-100	48 h	Daphnia magna (Big water flea)	literature value
1554325-20-0	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides					
	Acute fish toxicity	LC50 mg/l	10-100	96 h		literature value
	Acute algae toxicity	ErC50 mg/l	1-10	72 h		literature value
	Acute crustacea toxicity	EC50 mg/l	10-100	48 h	Daphnia magna (Big water flea)	literature value
166736-08-9	Long chain alkoxyated alcohol C10 polymer					
	Acute fish toxicity	LC50	>10 mg/l	96 h	Danio rerio (zebrafish)	literature value
	Acute algae toxicity	ErC50	>1 mg/l	72 h	Desmodesmus subspicatus	literature value
	Acute crustacea toxicity	EC50	>10 mg/l	48 h	Daphnia magna (Big water flea)	literature value
7320-34-5	tetrapotassium pyrophosphate					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Desmodesmus subspicatus	ECHA
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (Big water flea)	ECHA
	Fish toxicity	NOEC	100 mg/l	96 d	Oncorhynchus mykiss (Rainbow trout)	ECHA

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	Crustacea toxicity	NOEC mg/l	>100	3 d	Desmodesmus subspicatus	ECHA	
	Acute bacteria toxicity	EC50 mg/l ()	>1000	3 h	Activated sludge		OECD 209

12.2. Persistence and degradability

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
111-76-2	2-butoxyethanol			
	OECD 301B	90,4%	28	ECHA
	Readily biodegradable (according to OECD criteria).			
160875-66-1	1-Heptanol, 2-propyl-, 7EO			
	OECD 302B	90%		
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol	0,81

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

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

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**



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Disposal recommendations

This material and its container must be disposed of as hazardous waste. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

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 - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

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 75

Directive 2010/75/EU on industrial emissions: 3%

Directive 2004/42/EC on VOC in paints and varnishes: 3%

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

Additional information

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Substance/product listed in the following inventories

EU / Schweiz	yes
Taiwan	unknown
New Zealand	no
USA	yes
Canada	no
Australia	no
Japan	no
China	no
Korea	no
Philippines	no

15.2. Chemical safety assessment

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



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SECTION 16: Other information

Abbreviations and acronyms

Acute Tox: Acute toxicity

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Industrial use of vehicle cleaning products	IS	-	-	7, 10, 17	4	-	-	
2	Formulation or re-packing	F	-	-	8a, 9	2	-	-	
3	Professional use of vehicle cleaning products	PW	-	-	10, 11, 17	8a	-	-	
4	Consumer use of washing and cleaning products	C	-	35	-	8a	-	-	

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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