



# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## PERFEKT

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
7320-34-5	tetrapotassium pyrophosphate	5 - < 10 %
	230-785-7	
	01-2119489369-18	
	Eye Irrit. 2; H319	
15763-76-5	sodium cumene sulfonate	1 - < 5 %
	239-854-6	
	01-2119489411-37	
	Eye Irrit. 2; H319	
26183-52-8	fatty alcohol polyethoxilate	1 - < 5 %
	Acute Tox. 4, Eye Dam. 1; H302 H318	
68411-30-3	sodium dodecyl benzene sulfonate	1 - < 5 %
	270-115-0	
	01-2119489428-22	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412	
1310-73-2	sodium hydroxide	< 1 %
	215-185-5	
	011-002-00-6	
	01-2119457892-27	
	Met. Corr. 1, Skin Corr. 1A; H290 H314	

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	
7320-34-5	230-785-7	tetrapotassium pyrophosphate	5 - < 10 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
15763-76-5	239-854-6	sodium cumene sulfonate	1 - < 5 %
		inhalation: LC50 = >20 mg/l (vapours); inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >7000 mg/kg	
26183-52-8		fatty alcohol polyethoxilate	1 - < 5 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 500 mg/kg Eye Dam. 1; H318: >= 20 - 100	
68411-30-3	270-115-0	sodium dodecyl benzene sulfonate	1 - < 5 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 500 mg/kg	
1310-73-2	215-185-5	sodium hydroxide	< 1 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 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 % - < 15 % phosphates, < 5 % non-ionic surfactants, < 5 % anionic surfactants, perfumes (Linalool).

### SECTION 4: First aid measures

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### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### 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.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

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

### 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

Water spray jet  
alcohol resistant foam  
Carbon dioxide  
Extinguishing powder

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:  
Carbon dioxide  
Carbon monoxide

### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General measures

Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.

### 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

#### Other information

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.

### 6.4. Reference to other sections

Personal protection equipment: see section 8  
Disposal: see section 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

- Avoid contact with skin, eyes and clothes.
- Do not mix with other chemicals.
- Use personal protection equipment.
- When using do not eat, drink or smoke.
- If extensively sprayed or used with high pressure equipment:  
Do not breathe gas/fumes/vapour/spray.
- Use only in well-ventilated areas.

##### Advice on protection against fire and explosion

- No special fire protection measures are necessary.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

- Keep container tightly closed.

##### Hints on joint storage

- No special measures are necessary.

#### 7.3. Specific end use(s)

- There are no data available on the mixture itself.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
15763-76-5	sodium cumene sulfonate			
Worker DNEL, long-term		dermal	systemic	7,6 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	53,6 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	3,8 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	13,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	3,8 mg/kg bw/day

##### PNEC values

CAS No	Substance	Value
15763-76-5	sodium cumene sulfonate	
Micro-organisms in sewage treatment plants (STP)		100 mg/l

#### 8.2. Exposure controls

##### Protective and hygiene measures

- Take off contaminated clothing.
- Wash hands before breaks and after work.

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When using do not eat, drink or smoke.

### Eye/face protection

Wear eye/face protection. (EN 166)

### Hand protection

Wear suitable gloves. (EN 374, Breakthrough time: >10 min.)

Suitable material: NBR (Nitrile rubber).

Thickness of the glove material  $\geq 0,1$  mm

A survey of suitable brands with detailed information on breakthrough times is available upon request.

Diluted ready-to-use solutions  $\leq 1\%$ :

Protective gloves may be waived, if equivalent measures allowing for an increased skin stress because of wet work are implemented (e. g. application of suitable skin protecting creams).

### Skin protection

Wear suitable work clothing.

### Respiratory protection

If extensively sprayed or used with high pressure equipment: combination filter A1/P2 (EN 143, EN 14387).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	yellow
Odour:	Perfumes, fragrances

#### Test method

pH-Value (at 20 °C):	13,0 - 14,0
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### Changes in the physical state

Melting point:	approx. 0 °C
Boiling point or initial boiling point and boiling range:	approx. 100 °C
Flash point:	not applicable

### Flammability

Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined

### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

### Oxidizing properties

Not oxidising.	
Vapour pressure:	not determined
Density (at 25 °C):	1,11 g/cm <sup>3</sup>
Water solubility:	completely miscible

### Solubility in other solvents

not determined	
Partition coefficient n-octanol/water:	not determined

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Viscosity / dynamic:  
(at 25 °C) <10 mPa·s (50 1/s)

Relative vapour density: not determined

Evaporation rate: not determined

### 9.2. Other information

Solid content: not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Exothermic reaction with: Acid

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid

### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

### 10.5. Incompatible materials

Acid

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7320-34-5	tetrapotassium pyrophosphate				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
15763-76-5	sodium cumene sulfonate				
	oral	LD50 >7000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
	inhalation vapour	LC50 >20 mg/l	Rat	ATE	
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
26183-52-8	fatty alcohol polyethoxilate				
	oral	LD50 500 mg/kg	Rat	ATE	
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
68411-30-3	sodium dodecyl benzene sulfonate				
	oral	LD50 500 mg/kg	Rat	ATE	
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	
1310-73-2	sodium hydroxide				
	oral	LD50 >2000 mg/kg	Rat	ATE	
	dermal	LD50 >2000 mg/kg	Rat	ATE	
	inhalation aerosol	LC50 >5 mg/l	Rat	ATE	

### Irritation and corrosivity

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

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.

## SECTION 12: Ecological information

### 12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7320-34-5	tetrapotassium pyrophosphate					
	Acute fish toxicity	LC50 >1 mg/l	96 h			
	Acute algae toxicity	ErC50 >1 mg/l				
	Acute crustacea toxicity	EC50 >1 mg/l	48 h			
15763-76-5	sodium cumene sulfonate					
	Acute fish toxicity	LC50 >1000 mg/l	96 h			
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC 31 mg/l	4 d			
26183-52-8	fatty alcohol polyethoxilate					
	Acute algae toxicity	ErC50 19,6 mg/l	72 h		OECD 201	
	Acute crustacea toxicity	EC50 15,0 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
68411-30-3	sodium dodecyl benzene sulfonate					
	Acute fish toxicity	LC50 >1 mg/l	96 h			
	Acute algae toxicity	ErC50 >1 mg/l				
	Acute crustacea toxicity	EC50 >1 mg/l	48 h			
1310-73-2	sodium hydroxide					
	Acute fish toxicity	LC50 145 mg/l	96 h	Poecilia reticulata (Guppy)		
	Acute crustacea toxicity	EC50 76 mg/l	48 h	Daphnia magna (Big water flea)		

### 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.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
15763-76-5	sodium cumene sulfonate				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	>60%	28		
	Readily biodegradable (according to OECD criteria).				
26183-52-8	fatty alcohol polyethoxilate				
	OECD 301	>60%	28		
	Readily biodegradable (according to OECD criteria).				
68411-30-3	sodium dodecyl benzene sulfonate				
	OECD 301	>60%	28		
	Readily biodegradable (according to OECD criteria).				

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7320-34-5	tetrapotassium pyrophosphate	-2
15763-76-5	sodium cumene sulfonate	-1,1



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### 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 REACH, annex XIII.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

#### List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; 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

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

### Inland waterways transport (ADN)

14.1. UN number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L

### Marine transport (IMDG)

14.1. UN number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE, SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III

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Hazard label: 8  
Special Provisions: 223  
Limited quantity: 5 L  
EmS: F-A, S-B

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM 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  
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

No special measures are necessary.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): <30%

#### Additional information

Regulation (EC) No. 648/2004 (Detergents regulation)

#### National regulatory information

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

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Abbreviations and acronyms

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%

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Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 4: Chemical production where opportunity for exposure arises

PROC 7: Industrial spraying

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 13: Treatment of articles by dipping and pouring

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection

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

### Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: 9 (1)

In deviation from REGULATION (EC) No 1272/2008, annex I part 2 and 3, the assessment of skin and eye corrosion and irritation was performed by in-vitro-testing of the product and/or the principles of annex I, part 1.1.0.

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.

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