

# Reagenz A zur photometrischen Ammonium-Stickstoff-Bestimmung

Revision date: 07.01.2025

Product code: 32692

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

### 1.1. Product identifier

Reagenz A zur photometrischen Ammonium-Stickstoff-Bestimmung

UFI:

#### TSHW-S2M0-F00R-6G0C

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

## Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

## Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	•	REC Day or Night Within USA and Canada: canada: +1 703-741-5970 (collect calls

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

- Hazard components for labelling
- sodium hydroxide Danger
- Signal word:

**Pictograms:** 





according to Regulation (EC) No 1907/2006

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Hazard statements		
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statemen	ts	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing and eye protection/face protection.	
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.	

#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### Chemical characterization

Mixtures in aqueous solution

#### **Relevant ingredients**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation				
1310-73-2	sodium hydroxide				
	215-185-5	215-185-5 011-002-00-6 01-2119457892-27			
	Met. Corr. 1, Skin Corr.	1A; H290 H314	•		
7681-52-9	sodium hypochlorite, so	< 1 %			
	231-668-3	01-2119488154-34			
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H290 H314 H318 H335 H400 H410 EUH031				

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					
1310-73-2	215-185-5	215-185-5 sodium hydroxide				
	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					
7681-52-9	231-668-3	sodium hypochlorite, solution	< 1 %			
	inhalation: LC50 = > 10,5 mg/l (vapours); dermal: LD50 = > 20000 mg/kg; oral: LD50 = 1100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1 EUH; EUH031: >= 5 - 100					

## **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures



# according to Regulation (EC) No 1907/2006 Reagenz A zur photometrischen Ammonium-Stickstoff-Bestimmung

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# General information

First aider: Pay attention to self-protection!

## After inhalation

Provide fresh air. Call a physician immediately.

#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

#### After contact with eyes

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Skin corrosion/irritation Dyspnoea Cough Circulatory collapse Risk of serious damage to eyes.

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

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

no restriction

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

Non-combustible liquids

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

#### Additional information

Suppress gases/vapours/mists with water spray jet. 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 advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures



according to Regulation (EC) No 1907/2006

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#### Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

## For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

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

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 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

Do not breathe vapour/aerosol. Read label before use.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

## Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. If handled uncovered, arrangements with local exhaust ventilation have to be used. Draw up and observe skin protection programme. Wash hands before breaks and after work.

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

#### Requirements for storage rooms and vessels

Provide adequate ventilation as well as local exhaustion at critical locations. Unsuitable container/equipment material: Metal Aluminium Tin Zinc Hints on joint storage

national regulations

## Further information on storage conditions Keep container tightly closed.

Reep container agnay elected.



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Protect against: Light, Heat

# 7.3. Specific end use(s)

Laboratory chemicals

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

## **DNEL/DMEL** values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
1310-73-2	sodium hydroxide	•		•			
Worker DNEL,	long-term	inhalation	local	1 mg/m <sup>3</sup>			
Consumer DN	EL, long-term	inhalation	local	1 mg/m <sup>3</sup>			
7681-52-9	sodium hypochlorite, solution						
Worker DNEL, long-term		inhalation	systemic	1,55 mg/m³			
Worker DNEL, acute		inhalation	systemic	3,1 mg/m³			
Worker DNEL, long-term		inhalation	local	1,55 mg/m³			
Worker DNEL,	acute	inhalation	local	3,1 mg/m³			
Worker DNEL,	long-term	dermal	local	0,5 %			
Consumer DN	EL, long-term	inhalation	systemic	1,55 mg/m³			
Consumer DN	EL, acute	inhalation	systemic	3,1 mg/m³			
Consumer DN	EL, long-term	inhalation	local	1,55 mg/m³			
Consumer DNEL, acute		inhalation	local	3,1 mg/m³			
Consumer DNEL, long-term		dermal	local	0,5 %			
Consumer DNEL, long-term c		oral	systemic	0,26 mg/kg bw/day			

## **PNEC** values

CAS No	Substance				
Environmenta	Environmental compartment				
7681-52-9 sodium hypochlorite, solution					
Freshwater	0,00021 mg/l				
Freshwater (intermittent releases) 0,0		0,00026 mg/l			
Marine water		0,000042 mg/l			
Secondary po	11,1 mg/kg				
Micro-organis	4,69 mg/l				

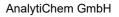
## 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.





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#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

## 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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing.

## **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## **SECTION 9: Physical and chemical properties**

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

Physical state: Colour:	Liquid colourless	
Odour:	characteristic	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		not applicable
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available



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pH-Value:	alkaline	
Viscosity / kinematic:	No data available	
Water solubility:	very soluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density (at 20 °C):	1,0836 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
9.2. Other information		
Information with regard to physical hazard classe	es	
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
Viscosity / dynamic:	No data available	
Flow time:	No data available	
Further Information		
Corrosive to metals.		

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrosive to metals.

## 10.2. Chemical stability

Protect against: Light, Heat

#### 10.3. Possibility of hazardous reactions

Metal, Light metal (Formation of: Hydrogen) Phenols Combustible substance Alkaline earth metal (Metal powder) Acids, Nitriles

# 10.4. Conditions to avoid

Light, Heat

# 10.5. Incompatible materials

Aluminium, Brass, Glass Tin, Zinc, Aluminium plastic



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#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### Further information

No data available

#### **SECTION 11: Toxicological information**

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

#### Toxicocinetics, 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. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

# ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
7681-52-9	sodium hypochlorite, solution								
	oral	mg/kg		Rat	Study report (1981)	OECD Guideline 401			
	dermal			> 20000 Rabbit Study report (*	Study report (1978)	OECD Guideline 402			
	inhalation (1 h) vapour	LC50 mg/l	> 10,5	Rat	Study report (1962)	OECD Guideline 403			

## Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. Serious eye damage/eye irritation: Causes serious eye damage. Risk of serious damage to eyes.

#### Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

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

#### Additional information on tests

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

#### **Practical experience**

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

## 11.2. Information on other hazards



according to Regulation (EC) No 1907/2006

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## Other information

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

- Further information Skin corrosion/irritation
  - Dyspnoea Cough Circulatory collapse Risk of serious damage to eyes.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
1310-73-2	sodium hydroxide						
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia sp.	Ecotoxicology and Environmental Safety,4	other: acute 48-h immobilization test ac
7681-52-9	sodium hypochlorite, solu	tion				·	
	Acute fish toxicity	LC50 mg/l	0,05	96 h	different fish species	Publication (1978)	Public available literature. No guidelin
	Acute algae toxicity	ErC50 mg/l	0,036	72 h	Pseudokirchneriella subcapitata	Study report (2013)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,141	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,062	15 d	Brevoortia tyrannus	Publication (1980)	Organisms were exposed to cooling waters
	Crustacea toxicity	NOEC mg/l	0,015	21 d	V. iris	Environmental Toxicology and Chemistry,	21 d long-term toxicity to mussel test.
	Acute bacteria toxicity	EC50 ()	563 mg/l		activated sludge of a predominantly domestic sewag	Study report (2013)	OECD Guideline 209

## 12.2. Persistence and degradability

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

## 12.3. Bioaccumulative potential

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

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7681-52-9	sodium hypochlorite, solution	-3,42

# 12.4. Mobility in soil

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

# 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



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

## Further information

Do not allow to enter into surface water or drains. Harmful effect due to pH shift.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Do not empty into drains.

Handle contaminated packages in the same way as the substance itself.

#### **Contaminated packaging**

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

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-A, S-B
Segregation group:	alkalis
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number or ID number:</u>	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION



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14.3. Transport hazard class(es):	8				
14.4. Packing group:	ll				
Hazard label:	8				
Special Provisions:	A3 A803				
Limited quantity Passenger:	0.5 L				
Passenger LQ:	Y840				
Excepted quantity:	E2				
IATA-packing instructions - Passenger:	851				
IATA-max. quantity - Passenger:	1L				
IATA-packing instructions - Cargo:	855				
IATA-max. quantity - Cargo:	30 L				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	No				
14.6. Special precautions for user   Warning: strongly corrosive.   14.7. Maritime transport in bulk according to IMO instruments   not applicable					
SECTION 15: Regulatory information					
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture				
EU regulatory information					
Restrictions on use (REACH, annex XVII):					
Entry 3, Entry 75					
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)				
2012/18/EU (SEVESO III):	·····j·····j·····				
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				
SECTION 16: Other information					

## Changes

This data sheet contains changes from the previous version in section(s): 1.





according to Regulation (EC) No 1907/2006

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## Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals Skin Corr: Skin corrosion Eye Dam: Eye damage STOT SE: Specific target organ toxicity - single exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard 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 Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

## Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

## **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.

Provide appropriate information, instructions and training to users

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