

# according to UK REACH Regulation Perchloric acid 70 % for analysis, ACS, Reag. Ph. Eur. Hg < 5 ppb

Revision date: 27.03.2023

Product code: 23556

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

#### 1.1. Product identifier

Perchloric acid 70 % for analysis, ACS, Reag. Ph. Eur. Hg < 5 ppb

UFI:

#### TD73-Q2Q7-700G-UN6X

#### 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	
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:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and 0	Canada: +1 703-741-5970 (collect calls
	accepted)	

#### **Further Information**

inapplicable, this product is a mixture REACH registration number see section 3

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Ox. Liq. 1; H271 Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

Danger

#### 2.2. Label elements

# **GB CLP Regulation**

Hazard components for labelling perchloric acid

Signal word:

Pictograms:





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#### Hazard statements

H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
Precautionary stateme	nts
P220	Keep/Store away from combustible materials.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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 data available

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

# 3.2. Mixtures

#### Chemical characterization

Mixtures in aqueous solution

#### Hazardous components

CAS No	Chemical name					
	EC No Index No REACH No					
	Classification (GB CLP Regulation)					
7601-90-3	perchloric acid					
	231-512-4 017-006-00-4					
	Flam. Liq. 3, Ox. Liq. 1, Skin Corr. 1A; H226 H271 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. L	imits, M-factors and ATE	
7601-90-3	231-512-4	perchloric acid	70 - < 75 %
	Skin Corr. 1A; H	00 - 2000 mg/kg Ox. Liq. 1; H271: >= 50 - 100 Ox. Liq. 2; H272: >= 0 - < 50 1314: >= 50 - 100 Skin Corr. 1B; H314: >= 10 - < 50 Skin Irrit. 2; H315: >= 1 - 2; H319: >= 1 - < 10	

#### 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

#### **General information**

Self-protection of the first aider

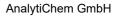
#### After inhalation

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.





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Call a physician immediately.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Irritant corrosive Cough Dyspnoea Cardiac arrhythmias 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 Oxidizing In case of warming: Decomposition with: Danger of explosion Hazardous combustion products In case of fire may be liberated: Hydrogen chloride (HCI)

# 5.3. Advice for firefighters

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

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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 Consult an expert



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#### 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. Danger of explosion

#### 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

Read label before use. Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol. Use extractor hood (laboratory).

# Advice on protection against fire and explosion

Keep away from combustible material.

# Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Further information on handling

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Keep away from combustible material.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Keep away from combustible material. national regulations



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#### Further information on storage conditions Unsuitable container/equipment material: Light metal, Metal Keep cool. Protect from sunlight.

storage temperature: +5°C bis +30°C

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

Laboratory chemicals

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

#### 8.1. Control parameters

# DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7601-90-3	perchloric acid			
Consumer DNI	EL, long-term	oral		0,0167 mg/kg bw/day

# **PNEC** values

CAS No	Substance			
Environmental compartment Value				
7601-90-3	perchloric acid			
Freshwater 0,				
Freshwater (intermittent releases) 147 mg/l				
Marine wate	0,002 mg/l			
Freshwater s	4,67 mg/kg			
Marine sedir	0,467 mg/kg			
Micro-organi	8,2 mg/l			
Soil	Soil			

#### 8.2. Exposure controls

# Appropriate engineering controls

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

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

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact Trade name/designation: KCL 898 Butoject® Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 450 min



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

#### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: B

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. Danger of explosion

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

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

Physical state:	Liquid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		-18 °C
Boiling point or initial boiling point and		198,7 °C
boiling range:		100,1 0
Flammability:		No data available
,		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
pH-Value (at 20 °C):		acidic
Viscosity / kinematic:		No data available
Water solubility:		Soluble in: Water
Solubility in other solvents		
not determined		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		1,68 g/cm <sup>3</sup>
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		

No data available



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Self-ignition temperature	
Solid:	not determined
Gas:	not applicable
Oxidizing properties	
The product is: oxidising, Oxidising.	
Oxidizing liquids, Category 1	
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
	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

Explosive Oxidizing

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Explosive reaction with: Hydrogen, Combustible substance Hydrocarbons, halogenated; Hydrogen halide Fluorine, Ether Dimethylsulfoxide (DMSO), Alcohols Nitriles, Hydrogen chloride (HCI) Acetic anhydride, Metal Ethanol, Methanol Dichloromethane, Phenol Phosphine, Phosphorus oxides (e.g. P2O5) Reducing agent, sulphuric acid iron and steel, coal Nitric acid, Acetic acid

Exothermic reaction with: Ketone, Alkali (lye)

Ignition hazard: Hydrogen iodide (HI), Aniline (Formaldehyde)

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

Rubber articles Metal Light metal



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Fat

#### 10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

# Further information

No data available

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

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

<u>\_\_\_\_</u>

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.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7601-90-3	perchloric acid					
	oral	LD50 2000 mg	200 - /kg	Rat	Study report (2003	3) OECD Guideline 423

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

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

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.

#### Information on likely routes of exposure

There are no data available on the mixture itself.

# Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

# 11.2. Information on other hazards

#### Endocrine disrupting properties

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.



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#### **Further information**

Irritant corrosive Cough Dyspnoea Cardiac arrhythmias Risk of serious damage to eyes.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name							
	Aquatic toxicity	Dose	Dose		Species	Source	Method	
7601-90-3	perchloric acid	perchloric acid						
	Acute fish toxicity	LC50 mg/l	1470	96 h	Lepomis macrochirus	Publication (2004)	EPA OPPTS 850.1075	
	Acute algae toxicity	ErC50 mg/l	> 435,7		Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202	
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	0,5 h	Activated sludge	Study report (1997)	ISO 8192	

# 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

# BCF

CAS No	Chemical name	BCF	Species	Source
7601-90-3	perchloric acid	> 0,12 - < 0,14	Danio rerio	Chemosphere 65 (2006

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

# 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 substance in the mixture does 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. There are no data available on the mixture itself.

#### 12.7. Other adverse effects

Avoid release to the environment. Harmful effect due to pH shift.

# **Further information**

Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

# Disposal recommendations

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



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Send to a physico-chemical treatment facility under observation of official regulations. Do not mix with other wastes.

Do not empty into drains.

# Contaminated packaging

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

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)

Land transport (ADR/RID)	
<u>14.1. UN number or ID number:</u>	UN 1873
14.2. UN proper shipping name:	Perchloric acid
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	1
Hazard label:	5.1+8
Classification code:	OC1
Special Provisions:	60
Limited quantity:	0
Excepted quantity:	E0
Transport category:	1
Hazard No:	558
Tunnel restriction code:	B/E
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	UN 1873
14.2. UN proper shipping name:	Perchloric acid
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	
Hazard label:	5.1+8
Classification code:	OC1
-	60
Special Provisions:	0
Limited quantity:	
Excepted quantity:	E0
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1873
14.2. UN proper shipping name:	Perchloric acid
<u>14.3. Transport hazard class(es):</u>	5.1
14.4. Packing group:	
Hazard label:	5.1+8
Special Provisions:	900
Limited quantity:	0
Excepted quantity:	E0
EmS:	F-A, S-Q
Segregation group:	heavy metals and their salts (including their organometallic compounds)
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 1873
14.2. UN proper shipping name:	Perchloric acid
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	
Hazard label:	5.1+8
Limited quantity Passenger:	Forbidden
Passenger LQ:	Forbidden
Excepted quantity:	E0
IATA-packing instructions - Passenger:	Forbidden
i 5	



Revision date: 27.03.2023 Product code: 23556 Pate   IATA-max. quantity - Passenger: Forbidden   IATA-max. quantity - Cargo: 553   IATA-max. quantity - Cargo: 2.5 L <b>14.5. Environmental hazards</b> ENVIRONMENTALLY HAZARDOUS:   IATA-max. quantity - Cargo: 2.5 L <b>14.5. Environmental hazards</b> ENVIRONMENTALLY HAZARDOUS:   IATA-max. quantity - Mazards No <b>14.6. Special precautions for user</b> Warning: Oxidising substances. <b>14.7. Maritime transport in bulk according to IMO instruments</b> not applicable <b>SECTION 15: Regulatory information</b> EU regulatory information <b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information</b> Restrictions on use (REACH, annex XVII):   Entry 3, Entry 40 Information according to 2012/18/EU   Information according to 2012/18/EU P8 OXIDISING LIQUIDS AND SOLIDS   (SEVESO III): National regulatory information   Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile	Perchloric acid 70 % for analysis, ACS, Reag. Ph. Eur. Hg < 5 ppb		
IATA-packing instructions - Cargo: 553 IATA-max. quantity - Cargo: 2.5 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user Warning: Oxidising substances. 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, Entry 40 Information according to 2012/18/EU National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile	ge 11 of 12		
ENVIRONMENTALLY HAZARDOUS: No   14.6. Special precautions for user Warning: Oxidising substances.   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, Entry 40 P8 OXIDISING LIQUIDS AND SOLIDS   (SEVESO III): National regulatory information   Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile			
14.6. Special precautions for user Warning: Oxidising substances.   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, Entry 40 Information according to 2012/18/EU   P8 OXIDISING LIQUIDS AND SOLIDS (SEVESO III):   National regulatory information Employment restrictions:			
Warning: Oxidising substances.   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, Entry 40   Information according to 2012/18/EU P8 OXIDISING LIQUIDS AND SOLIDS (SEVESO III):   National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile			
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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): 9,13.

# 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%

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

Classification	Classification procedure
Ox. Liq. 1; H271	On basis of test data
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

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

Flammable liquid and vapour.
May cause fire or explosion; strong oxidiser.
May be corrosive to metals.
Causes severe skin burns and eye damage.



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H318

Causes serious eye damage.

#### **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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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