



an analyti**chem** brand

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Zink-Cadmiumsulfatlösung gemäß DIN 38405-13:1981, DEV D13

Revision date: 28.08.2024

Product code: 10629

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

1.1. Product identifier

Zink-Cadmiumsulfatlösung gemäß DIN 38405-13:1981, DEV D13

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:	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

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 Acute Tox. 3; H331 Acute Tox. 4; H302 Eye Dam. 1; H318 Muta. 1B; H340 Carc. 1B; H350 Repr. 1B; H360FD STOT RE 1; H372 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling cadmium sulfate octahydrate Zinc sulphate heptahydrate

Signal word: Danger



Zink-Cadmiumsulfatlösung gemäß DIN 38405-13:1981, DEV D13 Revision date: 28.08.2024 Product code: 10629 Page 2 of 12 Pictograms: Hazard statements H302 Harmful if swallowed. H318 Causes serious eye damage. H331 Toxic if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. **Precautionary statements** Obtain special instructions before use. P201 P260 Do not breathe dust/fume/gas/mist/vapours/spray. 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. IF exposed or concerned: Get medical advice/attention. P308+P313
- Immediately call a POISON CENTER/doctor. P310

Special labelling of certain mixtures

Restricted to professional users.

2.3. Other hazards

No data 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 (EC) No					
7446-20-0	6-20-0 Zinc sulphate heptahydrate					
	231-793-3	030-006-00-9	01-2119474684-27			
	Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H318 H400 H410					
7790-84-3	cadmium sulfate octahydrate		5 - < 10 %			
	233-331-6	048-009-00-9	01-2119487964-18			
	Carc. 1B, Muta. 1B, Repr. 1B, Acute Tox. 2, Acute Tox. 3, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H350 H340 H360FD H330 H301 H372 H400 H410					

Full text of H and EUH statements: see section 16.



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Specific Co	nc. Limits, M-fa	actors and ATE			
CAS No	EC No	Chemical name	Quantity		
	Specific Cond	2. Limits, M-factors and ATE			
7446-20-0	231-793-3	Zinc sulphate heptahydrate	5 - < 10 %		
	dermal: LD5) = > 2000 mg/kg; oral: LD50 = ca. 926 mg/kg			
7790-84-3	233-331-6 cadmium sulfate octahydrate				
		TE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); oral: ATE = Carc. 1B; H350: >= 0,01 - 100 STOT RE 1; H372: >= 7 - 100 STOT RE 2; H373:			

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. If breathing is irregular or stopped, administer artificial respiration. 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.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. (Water, to which activated charcoal may be added) Call a physician immediately.

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

Fever

Gastrointestinal complaints Vomiting Circulatory collapse Headache Spasms

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



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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products In case of fire may be liberated: Metal oxide smoke, toxic Sulphur oxides

5.3. Advice for firefighters

Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet.

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

Move undamaged containers from immediate hazard area if it can be done safely.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 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

Read label before use. Handle and open container with care. Do not breathe vapour/aerosol.



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When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities 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

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. Store in a place accessible by authorized persons only.

Further information on storage conditions

Store in a dry place.

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		
7446-20-0	Zinc sulphate heptahydrate					
Worker DNEL,	long-term	inhalation	systemic	1 mg/m³		
Worker DNEL,	long-term	dermal	systemic	8,3 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	1,25 mg/m ³		
Consumer DN	EL, long-term	dermal	systemic	8,3 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	0,83 mg/kg bw/day		

PNEC values

CAS No	Substance					
Environmenta	Environmental compartment					
7446-20-0	Zinc sulphate heptahydrate					
Freshwater 0,0206 mg/l						
Marine water		0,0061 mg/l				
Freshwater se	ediment	117,8 mg/kg				
Marine sedime	ent	56,5 mg/kg				
Micro-organisms in sewage treatment plants (STP)		0,1 mg/l				
Soil		35,6 mg/kg				



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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.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Wear eye protection/face protection.

Hand protection

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 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 720 Camapren® Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 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.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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:	Liquid	
Colour:	clear	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available



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Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Flash point:	No data available	
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
pH-Value:	No data available	
Viscosity / kinematic:	No data available	
Water solubility:	Soluble in: Water	
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density:	1,1293 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
9.2. Other information		
Information with regard to physical hazard clas	ses	
Explosive properties		
No data available		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	0	
Solid content:	0	
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		
No data availabla		

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available



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10.5. Incompatible materials

No data available

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 Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Toxic if inhaled. Harmful if swallowed.

Avoid exposure - obtain special instructions before use.

ATEmix calculated

ATE (oral) 966,3 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 5,350 mg/l; ATE (inhalation dust/mist) 0,5350 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7446-20-0	Zinc sulphate heptahyo						
	oral	LD50 mg/kg	ca. 926	Mouse	Vet Hum Toxicol 30(3):224-228 (1988)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1999)	OECD Guideline 402	
7790-84-3	cadmium sulfate octah	ydrate					
	oral	ATE mg/kg	100				
	inhalation vapour	ATE	0,5 mg/l				
	inhalation dust/mist	ATE	0,05 mg/l				

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

May cause genetic defects. (cadmium sulfate octahydrate)

May cause cancer. (cadmium sulfate octahydrate)

May damage fertility. May damage the unborn child. (cadmium sulfate octahydrate)

STOT-single exposure

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

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (cadmium sulfate octahydrate)

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 mixture itself.



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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

Other information

There are no data available on the mixture itself.

Further information

Fever Gastrointestinal complaints Vomiting Circulatory collapse Headache Spasms

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
7446-20-0	Zinc sulphate heptahydra	te						
	Acute fish toxicity	LC50 mg/l	0,315	96 h	Thymallus arcticus	Ecotoxicology and environmental safety 2	other: American Society for testing matr	
	Acute crustacea toxicity	EC50 mg/l	1,22	48 h	Daphnia magna	Publication (1995)	other: US EPA/600/4-85/01 3: methods for	
	Fish toxicity	NOEC mg/l	0,44	72 d	Oncorhynchus mykiss	Trans. Am. Fish. Soc. 111, 70-77 (1982)	lab -designed dose response test with sm	
	Algae toxicity	NOEC mg/l	0,313	5 d	Ulva pertusa, Green macroalga, Ulvaceae	Aquatic Toxicology 75:202–212 (2005)	5-d sporulation-inhibiti on test with mar	
	Crustacea toxicity	NOEC mg/l	0,05	4 d	Ceriodaphnia dubia	Environ. Toxicol. Chem. 10, 47-55 (1991)	other: USEPA chronic survival and reprod	
	Acute bacteria toxicity	EC50 ()	5,2 mg/l	3 h	activated sludge of a predominantly domestic sewag	Water research volume 17, nr10, 1363-136	OECD Guideline 209	

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No	Chemical name	BCF	Species	Source
7446-20-0	Zinc sulphate heptahydrate	96,05	Danio rerio	Chemosphere 128:125-

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment



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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

Discharge into the environment must be avoided.

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.

Do not allow to enter into surface water or drains.

Send to a hazardous waste incinerator facility under observation of official regulations.

Special monitoring requiring wastes.

Contaminated packaging

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

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

SECTION 14: Transport information

14.1. UN number or ID number:	UN 3287
14.2. UN proper shipping name:	TOXIC LIQUID, INORGANIC, N.O.S. (Zinc sulphate heptahydrate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
Classification code:	T4
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	2
Hazard No:	60
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3287
14.2. UN proper shipping name:	TOXIC LIQUID, INORGANIC, N.O.S. (Zinc sulphate heptahydrate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1
Classification code:	T4
Special Provisions:	274 802
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 3287
14.2. UN proper shipping name:	TOXIC LIQUID, INORGANIC, N.O.S. (Zinc sulphate heptahydrate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1



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Special Provisions:	223, 274			
Limited quantity:	5 L			
Excepted quantity:	E1			
EmS:	F-A, S-A			
Air transport (ICAO-TI/IATA-DGR)				
<u>14.1. UN number or ID number:</u>	UN 3287			
14.2. UN proper shipping name:	TOXIC LIQUID, INORGANIC, N.O.S. (Zinc sulphate heptahydrate)			
14.3. Transport hazard class(es):	6.1			
14.4. Packing group:	III			
Hazard label:	6.1			
Special Provisions:	A3 A4 A137			
Limited quantity Passenger:	2 L			
Passenger LQ:	Y642			
Excepted quantity:	E1			
IATA-packing instructions - Passenger:	655 60 L			
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	663			
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	220 L			
	220 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	Yes			
Danger releasing substance:	Zinc sulphate heptahydrate			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU regulatory information				
Authorisations (REACH, annex XIV):				
Substances of very high concern, SVH	C (REACH article 59)			
cadmium sulfate octahydrate				
Restrictions on use (REACH, annex XVII):				
Entry 3, Entry 23, Entry 75				
Information according to Directive	H2 ACUTE TOXIC			
2012/18/EU (SEVESO III):				
Additional information:	E2			
National regulatory information				
		unit n		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.			
Water hazard class (D):	3 - highly hazardous to water			
- (-).				

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,7,8,9,11,12,13,14,15.



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Abbreviations and acronyms

Acute Tox: Acute toxicity Eye Dam: Eye damage Muta: Germ cell mutagenicity Carc: Carcinogenicity Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 3; H331	Calculation method
Acute Tox. 4; H302	Calculation method
Eye Dam. 1; H318	Calculation method
Muta. 1B; H340	Calculation method
Carc. 1B; H350	Calculation method
Repr. 1B; H360FD	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

CIC		
H	H301	Toxic if swallowed.
H	1302	Harmful if swallowed.
H	H318	Causes serious eye damage.
ŀ	1330	Fatal if inhaled.
H	H331	Toxic if inhaled.
H	1340	May cause genetic defects.
H	1350	May cause cancer.
H	H360FD	May damage fertility. May damage the unborn child.
H	1372	Causes damage to organs through prolonged or repeated exposure.
H	H400	Very toxic to aquatic life.
H	H410	Very toxic to aquatic life with long lasting effects.
ŀ	4411	Toxic to aquatic life with long lasting effects.

Further Information

Provide appropriate information, instructions and training to users

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