

### according to UK REACH Regulation

### Messingätzmittel

Revision date: 28.03.2022 Product code: Page 1 of 12

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

### 1.1. Product identifier

Messingätzmittel

UFI: R2WS-TDT8-AGST-M73G

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

#### Use of the substance/mixture

Laboratory chemicals

#### Uses advised against

Any non-intended use.

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

Company name: Schmitz-Metallographie GmbH

Street: Kaiserstraße 100
Place: D-52134 Herzogenrath

Telephone: 02407 / 568296-0 Telefax: 02407 / 568296-9

e-mail: info@schmitz-metallographie.de

Contact person: Herr Füllmann

e-mail: info@schmitz-metallographie.de Internet: www.schmitz-metallographie.de

Responsible Department: Dr. Gans-Eichler e-mail: info@tge-consult.de

Chemieberatung GmbH Tel.: +49(0)2534 6441185 Otto-Hahn-Str. 36 www.tge-consult.de

D-48161 Münster

# 1.4. Emergency telephone

<u>number:</u>

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## **GB CLP Regulation**

Met. Corr. 1; H290 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

### **GB CLP Regulation**

# Hazard components for labelling

Hydrochloric acid ... % Iron(III) chloride

Signal word: Danger

Pictograms:





### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.



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### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

### 2.3. Other hazards

For information or further instructions, see also section 11 or 12.

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

## 3.2. Mixtures

#### Chemical characterization

in aqueous solution

### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
7647-01-0	Hydrochloric acid %				
	231-595-7	017-002-01-X	01-2119484862-27		
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335				
7705-08-0	Iron(III) chloride			3 - < 5 %	
	231-729-4		01-2119497998-05		
	Met. Corr. 1, Acute Tox. 4, Skin Irri	t. 2, Eye Dam. 1, Skin Sens. 1; H290	H302 H315 H318 H317		

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	
7647-01-0	231-595-7	Hydrochloric acid %	5 - < 7 %
		H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 3; H335: >= 10 - 100	
7705-08-0	231-729-4	Iron(III) chloride	3 - < 5 %
	oral: ATE = 50	0 mg/kg	

### **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician. In the case of lung irritation: Primary treatment using corticoide spray, eg.





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Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks).

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

## 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

Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

## Unsuitable extinguishing media

High power water jet

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

Can be released in case of fire: Hydrogen chloride (HCI). Chlorine (CI2).

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

# Additional information

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

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

### **SECTION 6: Accidental release measures**

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

#### General advice

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

### For emergency responders

No special measures are necessary.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

# 6.3. Methods and material for containment and cleaning up

#### For containment

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

Treat the recovered material as prescribed in the section on waste disposal.

# For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.



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### 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

## **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. ( See section 8. ) Conditions to avoid: aerosol or mist formation Avoid contact with skin, eyes and clothes.

## Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

When using do not eat, drink or smoke.

#### Further information on handling

General protection and hygiene measures: See section 8.

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

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

# Further information on storage conditions

Recommended storage temperature: 20°C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

### 7.3. Specific end use(s)

See section 1.

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

### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7647-01-0	Hydrochloric acid %			
Worker DNEL, acute		inhalation	local	8 mg/m³
Worker DNEL, long-term		inhalation	local	15 mg/m³

### 8.2. Exposure controls



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### Appropriate engineering controls

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

Provide adequate ventilation.

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

#### Eve/face protection

Wear eye/face protection. BS/EN 166

### Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

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.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN ISO 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

## **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type E-P2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

# **Environmental exposure controls**

No information available.

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: yellowish
Odour: characteristic



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Changes in the physical state

Melting point/freezing point: not determined Boiling point or initial boiling point and not determined

boiling range:

Sublimation point: not determined Softening point: not determined Pour point: No information available. Flash point: not determined

**Flammability** 

Solid/liquid: No information available. No information available. Gas:

**Explosive properties** 

none

Lower explosion limits: not determined Upper explosion limits: not determined No information available.

Auto-ignition temperature:

Self-ignition temperature

No information available. Solid: Gas: No information available. not determined Decomposition temperature:

pH-Value:

Viscosity / dynamic: not determined Viscosity / kinematic: not determined

Flow time: not determined

Water solubility: completely miscible

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water: No information available. not determined Vapour pressure:

(at 20 °C)

Vapour pressure: not determined

(at 50 °C)

Density (at 20 °C): not determined Bulk density: No information available. Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

No data available Sustaining combustion:

Oxidizing properties

none

Other safety characteristics

Solvent separation test: No information available. Solvent content: not determined Solid content: not determined Evaporation rate: No information available.



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#### **Further Information**

No information available.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

May be corrosive to metals.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

Violent reaction with: Base.

Reacts with: Substances which form flammable gases when in contact with water. Organic peroxides.

Inflammatory substances. Alkali metals. Oxidizing agents.

### 10.4. Conditions to avoid

Protect against direct sunlight.

Keep away from heat.

### 10.5. Incompatible materials

Materials to avoid: Substances which form flammable gases when in contact with water. Organic peroxides.

Alkali metals. Oxidizing agents.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Hydrogen chloride (HCI). Chlorine (CI2).

## **SECTION 11: Toxicological information**

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

### Toxicocinetics, metabolism and distribution

No information available.

#### Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
7705-08-0	Iron(III) chloride					
	oral	ATE 500 mg/kg				

### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### Sensitising effects

May cause an allergic skin reaction. (Iron(III) chloride)

People who suffer from skin sensitazion problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

# Carcinogenic/mutagenic/toxic effects for reproduction

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

hydrochloric acid ... % (CAS No. 7647-01-0):

In vitro mutagenicity/genotoxicity:

Method: mammalian chromosome aberration test (in vitro)

Result: positive.

Method: mitotic recombination in Saccharomyces cerevisiae

Result: negative. Carcinogenicity:



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Exposure time: 128 weeks

Species: Rat.

Method: no guideline followed Result: NOAEL = <10 ppm

Literature information: ECHA Dossier

### 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.

iron trichloride (CAS No. 7705-08-0):

Subacute inhalative toxicity: Exposure time: 2 months

Species: Rabbit. Method: other guideline

Result: LOAEL = 1,4 mg/m3 air Literature information: ECHA Dossier

hydrochloric acid ... % (CAS No. 7647-01-0):

Subchronic inhalation toxicity:

Exposure time: 90d Species: Rat.

Method: OECD Guideline 413 Result: NOAEL = 20 ppm

Literature information: ECHA Dossier

## **Aspiration hazard**

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

## 11.2. Information on other hazards

## **Endocrine disrupting properties**

No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7647-01-0	Hydrochloric acid %						
	Acute fish toxicity	LC50 mg/l	3,25	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute algae toxicity	ErC50	4,7 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	4,92	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(EC50 mg/l)	(>=5)	3 h	activated sludge	ECHA Dossier	

### 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

# 12.4. Mobility in soil

No information available.

### 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 UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

## 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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %

### 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. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

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

110105

WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); pickling acids; hazardous waste

# List of Wastes Code - used product

110105

WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); pickling acids; hazardous waste

## List of Wastes Code - contaminated packaging

150110

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

#### Contaminated packaging

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

# **SECTION 14: Transport information**

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3264

**14.2. UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid,

iron trichloride)

14.3. Transport hazard class(es):
14.4. Packing group:

Hazard label:

8

8 III

Classification code: C1 Special Provisions: 274



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Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid,

iron trichloride)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C1
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid,

iron trichloride)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

F-A, S-B

Segregation group:

NO

223, 274

5 L

E1

F-A, S-B

1 - acids

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3264

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid,

iron trichloride)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

1 L

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856





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60 I IATA-max. quantity - Cargo:

14.5. Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** No

14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

### **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.

Information according to 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

#### Additional information

Safety Data Sheet according to UK-REACH Regulation

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

UK REACH Appendix XVII, No (mixture): 3

## **National regulatory information**

**Employment restrictions:** Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

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

#### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Hydrochloric acid ... % Iron(III) chloride

## **SECTION 16: Other information**

### Changes

Rev. 1,00; Initial release 28.03.2022

### 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)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

**DNEL: Derived No Effect Level** 

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European LIst of Notified Chemical Substances

ECHA: European Chemicals Agency EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)



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ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe

**UN: United Nations** 

VOC: Volatile Organic Compounds

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

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data
Skin Sens. 1; H317	Calculation method

#### 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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

### **Further Information**

Classification according to GHS [UK CLP] - Classification procedure:

Health hazards: Calculation method. Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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.)