

according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 1 of 12

SECTION 1: Identification of the	e substance/mixture and of the comp	pany/undertaking
1.1. Product identifier Rhenofol-Paste UFI: 2Q2P-X246-R00X-CTDY		
1.2. Relevant identified uses of the	substance or mixture and uses advised	l against
Use of the substance/mixture chemical sealing		
Uses advised against Only use for the intended put The product is intended for p		
1.3. Details of the supplier of the s	<u>afety data sheet</u>	
Company name: Street: Place:	FDT Flachdach Technologie GmbH Eisenbahnstraße 6-8 D-68199 Mannheim	
Telephone: e-mail:	+49 (621) 8504100 kundenservice@fdt.de	Telefax: +49 (621) 8504200
Contact person: e-mail: Internet: Responsible Department:	Fachkraft für Arbeitssicherheit gefahrstoffe@fdt.de http://www.fdt.de Arbeitssicherheit und Umweltschutz	Telephone:+49 (621) 8504303
<u>1.4. Emergency telephone</u> number:		nedical enquiry involving this product, spital accident and emergency department

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 4 Serious eye damage/eye irritation: Eye Irrit. 2 Carcinogenicity: Carc. 2 Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling tetrahydrofuran

Signal word: Danger



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 2 of 12

Pictograms:



Hazard statements

Highly flammable liquid and vapour.
Harmful if swallowed.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.

Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.

Special labelling of certain mixtures

EUH019 May form explosive peroxides.

2.3. Other hazards

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with harmless additions.

Hazardous components

CAS No	Chemical name			Quantity	
	EC No	EC No Index No REACH No			
	GHS Classification				
109-99-9	tetrahydrofuran				
	203-726-8	603-025-00-0	01-2119444314-46		
	Flam. Liq. 2, Carc. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, STOT SE 3; H225 H351 H302 H319 H335 H336 EUH019				

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

Specific concentration limits and M-factors

CAS No	EC No	Chemical name	Quantity		
	Specific conce	Specific concentration limits and M-factors			
109-99-9	203-726-8	tetrahydrofuran	70-100 %		
	Eye Irrit. 2; H319: >= 25 - 100 STOT SE 3; H335: >= 25 - 100				



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 3 of 12

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of troubles or persistent symptoms, consult an doctor/physician. Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician. In case of irregular breathing or respiratory arrest, perform artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Have victim drink large quantities of water, with active charcoal if possible. Call a physician immediately.

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

Following eye contact: Causes serious eye irritation. Following inhalation: May cause respiratory irritation. After Ingestion: Harmful if swallowed. Headache. Drowsiness. Dizziness. Suspected of causing cancer.

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

Carbon dioxide (CO2). Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Vapours are heavier than air and will spread at floor level. Possible ignition over greater distances. Thermal decomposition can lead to harmful gases and vapours. May form explosive peroxides.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow to enter into surface water or drains. 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



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 4 of 12

Provide adequate ventilation. Keep away from sources of ignition - No smoking. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

Safe handling: see section 7 Personal precautions: refer to section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

7.3. Specific end use(s)

chemical sealing

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
109-99-9	Tetrahydrofuran	50	150		TWA (8 h)	WEL
		100	300		STEL (15 min)	WEL



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 5 of 12

DNEL/DMEL values

Exposure route	Effect	Value
oral	systemic	1,5 mg/kg bw/day
dermal	systemic	12,6 mg/kg bw/day
dermal	systemic	1,5 mg/kg bw/day
inhalation	systemic	96 mg/m³
inhalation	local	300 mg/m ³
inhalation	systemic	72,4 mg/m ³
inhalation	local	150 mg/m³
inhalation	systemic	52 mg/m³
inhalation	local	150 mg/m³
inhalation	systemic	13 mg/m³
inhalation	local	75 mg/m³
	dermal dermal inhalation inhalation inhalation inhalation inhalation inhalation inhalation	dermal systemic dermal systemic inhalation systemic inhalation local inhalation systemic inhalation systemic

PNEC values

CAS No	Substance				
Environmental compartment Value					
109-99-9	tetrahydrofuran				
Freshwater 4,32 mg/l					
Marine water 0,432 mg/l					
Freshwater sediment 23,3 mg/kg					
Marine sediment 2,33 mg/k					
Micro-organisms in sewage treatment plants (STP) 4,6 mg/l					
Soil 2,13 mg/kg					

8.2. Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Eye/face protection

Tighty fitting safety glasses with side shields.

Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

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.

Suitable material: Butyl rubber.

Thickness of glove material:: 0,7 mm

Skin protection

Full cover clothing covering arms and legs.

Respiratory protection

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 6 of 12

Respirator with combination filter for vapour and particles. Filter type A-P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	paste-like	
Colour:	various	
Odour:	like: Ether	
		Test method
pH-Value:	not determin	ed
Changes in the physical state		
Melting point:	*-108,5	°C
Initial boiling point and boiling range:	*65,5	°C
Flash point:	*-20	°C
Flammability		
Gas:	not determin	ed
Explosive properties		
The product is not explosive, howeve	r, formation of explosive mixtures are possible.	
Lower explosion limits:	*1,5 vol.	%
Upper explosion limits:	*12,0 vol.	%
Ignition temperature:	*212	°C DIN 51794
Auto-ignition temperature		
Gas:	not determin	ed
Decomposition temperature:	not determin	ed
Oxidizing properties not determined		
	*217 h	
Vapour pressure: (at 20 °C)	21711	a
Density (at 20 °C):	*0,8892 g/c	m³
Water solubility:	*completely miscil	ble
Partition coefficient:	not determin	ed
Viscosity / dynamic: (at 20 °C)	not determin	ed
Viscosity / kinematic:	not determin	ed
Vapour density:	not determin	ed
Solvent content:	ca. 80	%
0.2. Other information		

*The data refer to "tetrahydrofuran"

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions

Avoid contact with oxidizing agents.



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 7 of 12

In the presence of oxygen and light: May form explosive peroxides.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxygen. Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to harmful gases and vapours.

In case of fire: It may produce hazardous fumes like carbon monoxide or carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 561,8 mg/kg

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
109-99-9	tetrahydrofuran						
		LD50 1650 mg/kg	Rat				
		LD50 >2000 mg/kg	Rat				

Irritation and corrosivity

Causes serious eye irritation.

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

Suspected of causing cancer. (tetrahydrofuran) Germ cell mutagenicity: 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

May cause respiratory irritation. (tetrahydrofuran) May cause drowsiness or dizziness. (tetrahydrofuran)

STOT-repeated exposure

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

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Aspiration hazard

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

Specific effects in experiment on an animal

In a two-year study, the application of tetra hydrofuran in high doses led to tumors in the liver of female mice and the kidney of male rats. The significance of this findings for the human health is not clear.

Further information

The product is skin resorptive.

SECTION 12: Ecological information

12.1. Toxicity

No data available.



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 8 of 12

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
109-99-9	tetrahydrofuran						
	Acute fish toxicity	LC50 mg/l	2160		Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 mg/l	5930	48 h	Daphnia magna		
	Algae toxicity	NOEC mg/l	3700	8 d	green alga		

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-99-9	tetrahydrofuran	0,45

BCF						
CAS No	Chemical name	BCF	Species	Source		
109-99-9	tetrahydrofuran	3,16		EPIWIN BCFBAF V.3.00		

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Disposal according to official regulations. Do not dispose with household waste. Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 9 of 12

SECTION 14: Transport information

Land transport (ADR/RID) <u>14.1. UN number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 2056 TETRAHYDROFURAN 3 II 3
Classification code: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:	F1 1 L E2 2 33 D/E
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 2056
14.2. UN proper shipping name:	TETRAHYDROFURAN
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity: Excepted quantity:	1 L E2
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 2056
14.2. UN proper shipping name:	TETRAHYDROFURAN
14.3. Transport hazard class(es):	3
14.4. Packing group:	U U
Hazard label:	3
Marine pollutant:	Nein
Special Provisions:	-
Limited quantity:	1 L F2
Excepted quantity: EmS:	EZ F-E, S-D
Air transport (ICAO-TI/IATA-DGR)	- <u>-</u> , -
<u>14.1. UN number:</u>	UN 2056
14.2. UN proper shipping name:	TETRAHYDROFURAN
14.2. ON proper simpling name. 14.3. Transport hazard class(es):	3
14.3. Hansport nazaru ciass(es):	0



rding to Regulation (EC) No 1907/2006

	FDT Flachdach Technologi	
FDT	Safety Data Sheet	
ACHDACH • TECHNOLOGIE	according to Regulation (EC) No 1907/2006	
	Rhenofol-Paste	
Revision date: 21.01.2021	Product code: FDT-016	Page 10 of 1
14.4. Packing group:	II	
Hazard label:	3	
Limited quantity Passenger:	3 1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:	353	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	5 L 364	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	60 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
No special precautions known.		
14.7. Transport in bulk according to Anne	ex II of Marpol and the IBC Code	
not applicable		
	gulations/legislation specific for the substance or mixture	
15.1. Safety, health and environmental re EU regulatory information Restrictions on use (REACH, annex XV Entry 3 2004/42/EC (VOC): Additional information	II): ca. 80%	
 15.1. Safety, health and environmental re EU regulatory information Restrictions on use (REACH, annex XV Entry 3 2004/42/EC (VOC): Additional information Regulation (EC) No. 1005/2009 on s Regulation (EC) No. 648/2004 (Deterning Regulation (EC) No. 648/2004 on period Regulation (EC) No 649/2012 of the of dangerous chemicals: This mix contains (annex 1). 	II): ca. 80% substances that lead to the depletion of the ozone layer: not app ergents regulation): not applicable rsistent organic pollutants: not applicable European Parliament and of the Council concerning the export ontains no chemicals that are subject to the export notification p	t and import procedures
 15.1. Safety, health and environmental re EU regulatory information Restrictions on use (REACH, annex XV Entry 3 2004/42/EC (VOC): Additional information Regulation (EC) No. 1005/2009 on a Regulation (EC) No. 648/2004 (Deterning Regulation (EC) No. 648/2004 on personal Regulation (EC) No 850/2004 on personal Regulation (EC) No 649/2012 of the of dangerous chemicals: This mix contains the following a Candidate List according to Article 5 	II): ca. 80% substances that lead to the depletion of the ozone layer: not appergents regulation): not applicable rsistent organic pollutants: not applicable European Parliament and of the Council concerning the export pontains no chemicals that are subject to the export notification p substances of very high concern (SVHC) which are included in t is of REACH: none substances of very high concern (SVHC) which are subject to an	t and import procedures the
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 15.1. Safety, health and environmental re EU regulatory information Restrictions on use (REACH, annex XV Entry 3 2004/42/EC (VOC): Additional information Regulation (EC) No. 1005/2009 on a Regulation (EC) No. 648/2004 (Deterned Regulation (EC) No. 648/2004 (Deterned Regulation (EC) No 850/2004 on perned Regulation (EC) No 649/2012 of the of dangerous chemicals: This mix contains the following a Candidate List according to Article a Candidate List according to Article and the following a succording to Annex XIV of REACH: National regulatory information 	II): ca. 80% substances that lead to the depletion of the ozone layer: not appergents regulation): not applicable rsistent organic pollutants: not applicable European Parliament and of the Council concerning the export ontains no chemicals that are subject to the export notification p substances of very high concern (SVHC) which are included in t is of REACH: none substances of very high concern (SVHC) which are subject to an none Observe restrictions to employment for juveniles according work protection guideline' (94/33/EC). Observe employment under the Maternity Protection Directive (92/85/EEC) for ex	t and import procedures the uthorisation g to the 'juvenile nt restrictions xpectant or
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according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 11 of 12

Changes

Version 1,00 - Creation - 04.06.2014

Version 1,01 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision - 21.07.2015 Version 1.02 - General update - 26.08.2016

Version 1,02 - General update - 26.08.2016

Version 1,03 - General update - 21.01.2021

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) BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act CAS: Chemical Abstracts Service DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization) EC: Effective Concentration EG: European Community (Europäische Gemeinschaft) EN: European Norm IATA: International Air Transport Association IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk ICAO: International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods ISO: Norm of the International Standards Organization CLP: Classification, Labeling, Packaging IUCLID: International Uniform ChemicaL Information Database LC: Lethal concentration LD: Lethal dose log Kow: Octanol/water partition coefficient MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships OECD: Organisation for Economic Co-operation and Development PBT: Persistent, bio-cumulative, toxic RID: Regulation Concerning the International Transport of Dangerous Goods by Rail TRGS: Technische Regeln für Gefahrstoffe **UN: United Nations** VOC: Volatile Organic Compounds vPvB: very persistent and very bio-cumulative WGK: German Water Hazard Class 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 DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration TLV: Threshold Limiting Value STOT: Specific Target Organ Toxicity AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
EUH019	May form explosive peroxides.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for



according to Regulation (EC) No 1907/2006

Rhenofol-Paste

Revision date: 21.01.2021

Product code: FDT-016

Page 12 of 12

guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Ottostraße 1, 63741, Aschaffenburg, Germany Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

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