

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

320.000 Renia - Syntic-TOTAL-PUR-Adhesive

Print date: 14.11.2014

Product code: 320.000

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

320.000 Renia - Syntic-TOTAL-PUR-Adhesive

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Roller application or brushing of adhesive and other coating.

1.3. Details of the supplier of the safety data sheet

Company name:	Renia Gesellschaft mbH. Chemische Fabrik	
Street:	Ostmerheimer Straße 516	
Place:	D-51109 Köln (Cologne)	
Post-office box:	910659	
	D-51076 Köln (Cologne)	
Telephone:	+49-221-630799-0	Telefax: +49-221-630700-50
e-mail:	info@renia.com	
Contact person:	Heinz Buchholz Dipl.Chem	Telephone: 16
e-mail:	labor@renia.com	
Internet:	www.renia.com	
Responsible Department:	Labor 07:30 - 16:00 Uhr	

1.4. Emergency telephone number:

+49-221-630799-0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F - Highly flammable, Xi - Irritant

R phrases:

Highly flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Classification according EC regulation 1272/2008 (CLP):

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

2.2. Label elements**Hazardous components which must be listed on the label**

acetone; propan-2-one; propanone

ethyl acetate

Signal word: Danger

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Pictograms:

GHS02-GHS07

**Hazard statements**

- | | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statements

- | | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash ... thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P321 | Specific treatment (see ... on this label). |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P352 | Wash with plenty of water. |
| P364 | And wash it before reuse. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use ... to extinguish. |
| P235 | Keep cool. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to |

Special labelling of certain mixtures

- | | |
|--------|---|
| EUH018 | In use may form flammable/explosive vapour-air mixture. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Additional advice on labelling

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.

2.3. Other hazards

No information available.

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SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Polyurethane-Prepolymers with stabilizers in a mixture of organic solvents

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-662-2	acetone; propan-2-one; propanone	30-50 %
67-64-1	F - Highly flammable, Xi - Irritant R11-36-66-67	
606-001-00-8	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
01-2119471330-49		
205-500-4	ethyl acetate	25-35 %
141-78-6	F - Highly flammable, Xi - Irritant R11-36-66-67	
607-022-00-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
01-2119475103-46		
215-535-7	xylene	10-15 %
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H312 H332 H315	
01-2119486134		

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove affected person from the danger area and lay down.

After inhalation

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Consult an ophthalmologist. 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

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Dizziness. Nausea.

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

Treat symptomatically. Where appropriate artificial ventilation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO₂), Foam, Extinguishing powder, alcohol resistant foam, ABC powder, Atomized water, Water fog.**Unsuitable extinguishing media**

Water, High power water jet, High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. 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**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion Do not allow to enter into surface water or drains. Cover drains.

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. Soak up inert absorbent and dispose as waste requiring special attention. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air. Take precautionary measures against static

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discharge. Keep away from sources of ignition. - No smoking. Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Recommended storage temperature: 10-30 °C

Keep container tightly closed and in a well-ventilated place.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances. Store packaging and combustible materials separately from one another. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Adhesives, sealants

Roller application or brushing of adhesive and other coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	acetone; propan-2-one; propanone	500	1210		TWA (8 h)	AGW
		1500	3620		STEL (15 min)	AGW
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

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. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Before starting work, apply solvent-resistant skincare preparations.

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Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Test suitability of gloves before use.

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.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: insufficient ventilation. With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Do not allow to enter into soil/subsoil. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless, clear
Odour:	ester

Test method

pH-Value: Test not required.

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	56 °C DIN 53 171
Flash point:	-20 °C DIN 51 755

Flammability

Solid:	not applicable
Gas:	not applicable

Lower explosion limits:	1 vol. %
Upper explosion limits:	14,3 vol. %
Ignition temperature:	460 °C DIN 51 794

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: 246 hPa DIN EN 12
(at 20 °C)

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Vapour pressure: (at 50 °C)	814 hPa
Density (at 20 °C):	0,86 g/cm³ DIN 51 757
Water solubility:	insoluble
Solubility in other solvents not determined	
Partition coefficient:	not determined
Viscosity / dynamic: (at 20 °C)	2000-3000 mPa·s DIN 53018
Flow time:	> 300 (3 mm)
Vapour density:	not determined
Evaporation rate:	not determined
Solvent content:	80,80 %

9.2. Other information

Solid content:	19,20 %
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Flammable, Ignition hazard. Explosive. The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

10.2. Chemical stability

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

10.3. Possibility of hazardous reactions

Gas/vapour, highly flammable.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat. Ignition hazard. Decomposition takes place from temperatures above: > 150 °C

10.5. Incompatible materials

Protect against: Contact with air/oxygen. Acid, concentrated. , Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Health injuries are not known or expected under normal use.

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50	5800 mg/kg	Ratte	RTECS
	dermal	LD50	20000 mg/kg	Kaninchen	IUCLID
	inhalative (4 h) vapour	LC50	76 mg/l	Ratte	
141-78-6	ethyl acetate				
	oral	LD50	5600 mg/kg	Rat	
	dermal	LD50	18000 mg/kg	Rabbit	
	inhalative vapour	LC50	58 mg/l	Rat	
1330-20-7	xylene				
	oral	LD50	8700 mg/kg	Rat	
	dermal	LD50	2000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	6350 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		

Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

Sensitising effects

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

Severe effects after repeated or prolonged exposure

Inhalation causes narcotic effects/intoxication.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific effects in experiment on an animal

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

Additional information on tests

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

SECTION 12: Ecological information**12.1. Toxicity**

Product is easily volatile. Product is slightly soluble in test vehicle. An aqueous dispersion has been tested.

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	6100 mg/l	48 h	Daphnia magna	
141-78-6	ethyl acetate					
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	3300 mg/l	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	717 mg/l	48 h	Daphnia magna	
1330-20-7	xylene					
	Acute fish toxicity	LC50	26 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	4 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	165 mg/l	48 h		

12.2. Persistence and degradability

Product is biodegradable with difficulty.

12.3. Bioaccumulative potential

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

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24
141-78-6	ethyl acetate	0,6
1330-20-7	xylene	3

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

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

Further information

Avoid release to the environment. The statement is derived from the properties of the components.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Send to a hazardous waste incinerator facility under observation of official regulations.

Waste disposal number of waste from 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 dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

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Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Classification code: F1
Special Provisions: 640H
Limited quantity: 5 L
Transport category: 3
Hazard No: 33
Tunnel restriction code: D/E

Other applicable information (land transport)

E1

Additional information on classification : 2.2.3.1.4 ADR / GGVSEB

Inland waterways transport (ADN)

14.1. UN number: UN1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Classification code: F1
Special Provisions: 640H
Limited quantity: 5 L

Other applicable information (inland waterways transport)

: 640H

E1

Additional information on classification : 2.2.3.1.4 ADR / GGVSEB

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Marine transport (IMDG)

14.1. UN number: UN1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: 223, 955
Limited quantity: 5 L
EmS: F-E, S-D

Other applicable information (marine transport)

Staukategorie A

E1

Additional information on classification : 2..3.2.3 IMDG-Code

Air transport (ICAO)

14.1. UN number: UN1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: A3
Limited quantity Passenger: 10 L
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

Other applicable information (air transport)

E1

: Y344

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible liquids.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 100 % (860 g/l)

Additional information

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To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions:

Observe employment restrictions for young people.

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**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%

Relevant R-phrases (Number and full text)

- | | |
|-------|---|
| 10 | Flammable. |
| 11 | Highly flammable. |
| 20/21 | Harmful by inhalation and in contact with skin. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |

Relevant H- and EUH-phrases (Number and full text)

- | | |
|--------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| EUH018 | In use may form flammable/explosive vapour-air mixture. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

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