

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

D444

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

Adhesives, sealants

**Uses advised against**

Any non-intended use.

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

Company name: Delta Adhesives Limited  
Place: Units 39-40 Claycliffe Business Park, Barnsley, S75 1JU, United Kingdom  
Telephone: +44 (0)1226 381571  
Internet: [www.delta-adhesives.co.uk](http://www.delta-adhesives.co.uk)  
Responsible Department: sales@delta-adhesives.co.uk

**1.4. Emergency telephone number:** +44 (0)1226 381571 (Mo-Fr, 08:00-16:00)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Indications of danger: Xi - Irritant  
R phrases:  
Irritating to eyes, respiratory system and skin.  
May cause sensitisation by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**GHS classification**

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Dam. 1  
Respiratory/skin sensitization: Skin Sens. 1  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazardous to the aquatic environment: Aquatic Chronic 3  
Hazard Statements:  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.

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

Aliphatic urethane acrylate  
Polyglycol dimethacrylate  
acrylic acid, prop-2-enoic acid

Signal word: Danger  
Pictograms: GHS05-GHS07

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**Hazard statements**

|      |  |
|------|--|
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H318 | Causes serious eye damage.                         |
| H335 | May cause respiratory irritation.                  |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

|                |  |
|----------------|--|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.   |
| P312           | Call a POISON CENTER/doctor if you feel unwell.  |
| P501           | Dispose of contents/container to in accordance with official regulations.  |

**2.3. Other hazards**

No information available.

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

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#### Hazardous components

| EC No        | Chemical name   | Quantity    |
|--------------|---|-------------|
| CAS No       | Classification  |             |
| Index No     | GHS classification  |             |
| REACH No     |   |             |
|              | Aliphatic urethane acrylate   | 60 - < 65 % |
| -            | Xi - Irritant R38-43  |             |
|              | Skin Irrit. 2, Skin Sens. 1; H315 H317  |             |
|              | Polyglycol dimethacrylate   | 30 - < 35 % |
| 25852-47-5   | R43-52-53   |             |
|              | Skin Sens. 1, Aquatic Chronic 3; H317 H412  |             |
| 201-177-9    | acrylic acid, prop-2-enoic acid   | 1 - < 5 %   |
| 79-10-7      | C - Corrosive, Xn - Harmful, N - Dangerous for the environment R10-20/21/22-35-50   |             |
| 607-061-00-8 | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1; H226 H332 H312 H302 H314 H400                       |             |
| 201-254-7    | cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide  | < 1 %       |
| 80-15-9      | O - Oxidizing, T - Toxic, C - Corrosive, Xn - Harmful, N - Dangerous for the environment R7-23-21/22-48/20/22-34-51-53                      |             |
| 617-002-00-8 | Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, STOT RE 2, Skin Corr. 1B, Aquatic Chronic 2; H242 H331 H312 H302 H373 ** H314 H411 |             |
| 204-055-3    | 2'-Phenylacetohydrazide   | < 1 %       |
| 114-83-0     | T - Toxic, Xi - Irritant R25-36/37/38-43  |             |
|              | Acute Tox. 3, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H301 H319 H335 H315 H317  |             |

Full text of R and H phrases: see Section 16.

#### Further Information

Product does not contain listed SVHC substances.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

##### After inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

##### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

##### After ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Call a POISON CENTER or doctor/physician.

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

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No information available.

**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**Dry extinguishing powder. Foam. Water spray. Carbon dioxide (CO<sub>2</sub>).**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical resistant suit. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray/stream to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.

Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing.

Wear personal protection equipment. (refer to chapter 8)

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

**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).

Ventilate affected area.

Treat the assimilated material according to the section on waste disposal.

Clear contaminated area thoroughly.

**6.4. Reference to other sections**

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation.

Wear suitable protective clothing. ( Refer to chapter 8. )

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Further information on handling**

Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing.

General protection and hygiene measures: refer to chapter 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. Keep container dry.

**Advice on storage compatibility**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances.

**Further information on storage conditions**

Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

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

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Protective and hygiene measures**

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing. Protect skin by using skin protective cream.

**Eye/face protection**

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

**Hand protection**

Pull-over gloves of rubber. DIN EN 374

Suitable material:

(Breakthrough time  $\geq$  480 min, penetration time (maximum wearing period): 160 min)

Butyl rubber. (0,5 mm)

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

**Skin protection**

Suitable protection of the body: Lab apron.

**Respiratory protection**

Respiratory protection required in case of:  
insufficient ventilation.

Generation/formation of aerosols

Generation/formation of mist

exceeding critical value

Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Type : A / P2/P3

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, closed-circuit breathing apparatus must be used!

**Environmental exposure controls**

Do not empty into drains or the aquatic environment.

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

|                 |                |
|-----------------|----------------|
| Physical state: | liquid         |
| Colour:         | Orange         |
| Odour:          | characteristic |

**Test method**

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

**Changes in the physical state**

|  |                |
|--|----------------|
| Melting point:                           | not determined |
| Initial boiling point and boiling range: | not determined |
| Flash point:                             | not determined |

**Explosive properties**

none/none

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

**Oxidizing properties**

none/none

|                      |                |
|----------------------|----------------|
| Vapour pressure:     | not determined |
| Density:             | not determined |
| Viscosity / dynamic: | not determined |

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

**10.5. Incompatible materials**

Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated.

**10.6. Hazardous decomposition products**Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

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#### Acute toxicity

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

#### Acute toxicity

| CAS No   | Chemical name  |        |             |         |              |
|----------|--|--------|-------------|---------|--------------|
|          | Exposure routes  | Method | Dose        | Species | Source       |
| 79-10-7  | acrylic acid, prop-2-enoic acid                                |        |             |         |              |
|          | oral   | ATE    | 500 mg/kg   |         |              |
|          | dermal   | LD50   | > 294 mg/kg | Rabbit. | RTECS        |
|          | inhalative (4 h) vapour  | LC50   | >5,1 mg/l   | Rat.    | ECHA Dossier |
|          | inhalative aerosol   | ATE    | 1,5 mg/l    |         |              |
| 80-15-9  | cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide |        |             |         |              |
|          | oral   | LD50   | 382 mg/kg   | Rat.    | IUCLID       |
|          | dermal   | LD50   | 500 mg/kg   | Rat.    | RTECS        |
|          | inhalative (4 h) vapour  | LC50   | (200) mg/l  | Mouse.  | IUCLID       |
|          | inhalative aerosol   | ATE    | 0,5 mg/l    |         |              |
| 114-83-0 | 2'-Phenylacetohydrazide  |        |             |         |              |
|          | oral   | LD50   | 270 mg/kg   | Mouse.  |              |

#### Irritation and corrosivity

Causes skin irritation.  
Causes serious eye damage.

#### Sensitising effects

May cause an allergic skin reaction. (Aliphatic urethane acrylate), (Polyglycol dimethacrylate), (2'-Phenylacetohydrazide)

Respiratory or skin sensitisation:

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

#### STOT-single exposure

May cause respiratory irritation. (2'-Phenylacetohydrazide)

#### Severe effects after repeated or prolonged exposure

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

acrylic acid, prop-2-enoic acid:

Subchronic oral toxicity (90d, Rat.) NOAEL = 40 mg/kg; literature information: ECHA Dossier

Subchronic inhalative toxicity (90d, Rat.) LOAEC = 0,015 mg/l; literature information: ECHA Dossier

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:

Subchronic inhalative toxicity (Rat.) NOAEC = 31 mg/m<sup>3</sup>; literature information: ECHA Dossier

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

acrylic acid, prop-2-enoic acid:

In-vitro mutagenicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative.

literature information: ECHA Dossier

In-vivo mutagenicity: No experimental indications of mutagenicity in-vivo exist. literature information: ECHA Dossier

Carcinogenicity: (Mouse.) NOAEL = >10 mg/kg(bw)/day; literature information: ECHA Dossier

Developmental toxicity/teratogenicity (Rat.) NOAEC = 0,075 mg/l; literature information: ECHA Dossier

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:

In-vitro mutagenicity: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = positive. literature information: ECHA Dossier

No experimental indications of mutagenicity in-vivo exist. literature information: ECHA Dossier

#### Aspiration hazard

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

#### Specific effects in experiment on an animal

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No  | Chemical name  |        |            |           |                         |              |
|---------|--|--------|------------|-----------|-------------------------|--------------|
|         | Aquatic toxicity   | Method | Dose       | [h]   [d] | Species                 | Source       |
| 79-10-7 | acrylic acid, prop-2-enoic acid                                |        |            |           |                         |              |
|         | Acute fish toxicity  | LC50   | 27 mg/l    | 96 h      | Onchorhynchus mykiss    | ECHA Dossier |
|         | Acute algae toxicity   | ErC50  | 0,13 mg/l  | 72 h      | Desmodesmus subspicatus | MSDS extern  |
|         | Acute crustacea toxicity                                       | EC50   | 95 mg/l    | 48 h      | Daphnia magna           | ECHA Dossier |
| 80-15-9 | cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide |        |            |           |                         |              |
|         | Acute fish toxicity  | LC50   | 3,9 mg/l   | 96 h      | Oncorhynchus mykiss     | ECHA Dossier |
|         | Acute algae toxicity   | ErC50  | 3,1 mg/l   | 72 h      | Desmodesmus subspicatus | ECHA Dossier |
|         | Acute crustacea toxicity                                       | EC50   | 18,84 mg/l | 48 h      | Daphnia magna           | ECHA Dossier |

### 12.2. Persistence and degradability

| CAS No  | Chemical name  |       |    |              |  |
|---------|--|-------|----|--------------|--|
|         | Method   | Value | d  | Source       |  |
|         | Evaluation   |       |    |              |  |
| 80-15-9 | cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide |       |    |              |  |
|         | OECD 301B / ISO 9439 / EWG 92/69 Anhang V, C.4-C               | 3%    | 28 | ECHA Dossier |  |
|         | Not easily bio-degradable (according to OECD-criteria).        |       |    |              |  |

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

| CAS No  | Chemical name  | Log Pow |
|---------|--|---------|
| 79-10-7 | acrylic acid, prop-2-enoic acid                                | 0,35    |
| 80-15-9 | cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide | 2,16    |

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available



#### **12.6. Other adverse effects**

No data available

#### **Further information**

Do not empty into drains or the aquatic environment.

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

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.

##### **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**

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 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 dangerous substances  
Classified as hazardous waste.

##### **Contaminated packaging**

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

### **SECTION 14: Transport information**

#### **Land transport (ADR/RID)**

**14.1. UN number:** Not restricted

##### **Other applicable information (land transport)**

Not restricted

#### **Inland waterways transport (ADN)**

**14.1. UN number:** Not restricted

##### **Other applicable information (inland waterways transport)**

Not restricted

#### **Marine transport (IMDG)**

**14.1. UN number:** Not restricted

##### **Other applicable information (marine transport)**

Not restricted

#### **Air transport (ICAO)**

**14.1. UN number:** Not restricted

##### **Other applicable information (air transport)**

Not restricted

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

refer to chapter 6-8

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

irrelevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): No information available. VOC Directive 2004/42/EC: No information available.

**Additional information**

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Not subject to regulation 96/82/EC.

REACH 1907/2006 Appendix XVII, No 3

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 3 - highly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

Rev. 1,00, 16.12.2014, Initial release

**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)

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

Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

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

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

**Full text of R phrases referred to under Sections 2 and 3**

|          |   |
|----------|---|
| 07       | May cause fire.   |
| 10       | Flammable.  |
| 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| 21/22    | Harmful in contact with skin and if swallowed.                |

|          |  |
|----------|--|
| 23       | Toxic by inhalation.   |
| 25       | Toxic if swallowed.  |
| 34       | Causes burns.  |
| 35       | Causes severe burns.   |
| 36/37/38 | Irritating to eyes, respiratory system and skin.   |
| 38       | Irritating to skin.  |
| 43       | May cause sensitisation by skin contact.   |
| 48/20/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. |
| 50       | Very toxic to aquatic organisms.   |
| 51       | Toxic to aquatic organisms.  |
| 52       | Harmful to aquatic organisms.  |
| 52/53    | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.          |
| 53       | May cause long-term adverse effects in the aquatic environment.  |

**Full text of H statements referred to under Sections 2 and 3**

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.                                       |
| H242 | Heating may cause a fire.  |
| H301 | Toxic if swallowed.  |
| H302 | Harmful if swallowed.  |
| H312 | Harmful in contact with skin.                                      |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.                                     |
| H331 | Toxic if inhaled.  |
| H332 | Harmful if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.  |
| H411 | Toxic to aquatic life with long lasting effects.                   |
| H412 | Harmful to aquatic life with long lasting effects.                 |

**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.)*