

according to Regulation (EC) No 1907/2006

TIP TOP COROFLAKE 34

Revision date: 30.07.2019

Product code: 00359-1032

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

1.1. Product identifier

TIP TOP COROFLAKE 34

Art.-No.

590 1300, 590 1317

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

Use of the substance/mixture

Spray coating material

1.3. Details of the supplier of the safety data sheet

| Company name: | TIP TOP Oberflaechenschutz Elbe | e GmbH |
|--------------------------|------------------------------------|---|
| Street: | Heuweg 4 | |
| Place: | D-06886 Wittenberg | |
| Telephone: | +49(0)3491/635-50 | Telefax:+49(0)3491/635-552 |
| Responsible Department: | Responsible for the safety data sh | eet: sds@gbk-ingelheim.de |
| 1.4. Emergency telephone | INTERNATIONAL: +49 - (0) 6132 | - 84463, GBK GmbH (24h - 7d/w - 365d/a) |
| number: | In England and Wales: NHS 111 Ir | n Scotland: NHS 24 - dial 111 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 3 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Reproductive toxicity: Repr. 2 Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - repeated exposure: STOT RE 1 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Flammable liquid and vapour. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling Styrene methanol N,N-Dimethylaniline Signal word: Danger



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Pictograms:

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Hazard statements

| H226 | Flammable liquid and vapour. |
|-------|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| | |

Precautionary statements

| ecautionaly statement | 115 |
|------------------------|--|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe vapour. |
| 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 or shower. |
| 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. |
| P273 | Avoid release to the environment. |
| ocial labolling of cor | toin mixtures |

Special labelling of certain mixtures

EUH208 Contains Neodecanoic acid, cobalt salt, 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides. May produce an allergic reaction.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Epoxide-vinyl ester-resin in styrene



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Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|--|---------------------------------|---|----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | • | |
| 100-42-5 | Styrene | | | < 40 % |
| | 202-851-5 | 601-026-00-0 | 01-2119457861-32 | |
| | Flam. Liq. 3, Repr. 2, Acute Tox. 4 Aquatic Chronic 3; H226 H361d H | | OT SE 3, STOT RE 1, Asp. Tox. 1, H304 H412 | |
| 79-41-4 | Methacrylic acid | | | < 1 % |
| | 201-204-4 | 607-088-00-5 | 01-2119463884-26 | |
| | Acute Tox. 3, Acute Tox. 4, Acute | Tox. 4, Skin Corr. 1A, STOT | SE 3; H311 H332 H302 H314 H335 | |
| 67-56-1 | methanol | | | < 1 % |
| | 200-659-6 | 603-001-00-X | 01-2119433307-44 | |
| | Flam. Liq. 2, Acute Tox. 3, Acute | | | |
| 27253-31-2 | Neodecanoic acid, cobalt salt | | | < 1 % |
| | 248-373-0 | | 01-2119970733-31 | |
| | Acute Tox. 4, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H302 H317 H372 H412 | | | |
| 171869-89-9 | 1,2-Ethanediamine, N-[3-(trimethor Hydrochlorides | oxysilyl)propyl]-, N-[(ethenylp | henyl)methyl], Derivates, | < 1 % |
| | | | | |
| | Eye Dam. 1, Skin Sens. 1; H318 H317 | | | |
| 121-69-7 | N,N-Dimethylaniline | | | < 0,2 % |
| | 204-493-5 | 612-016-00-0 | 01-2119935241-47 | |
| | Carc. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Aquatic Chronic 2; H351 H331 H311 H301 H411 | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately. In the event of persistent symptoms receive medical treatment. Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours. Seek medical treatment immediately.

After contact with skin

Wash off immediately with soap and plenty of water. Treat subsequently with skin cream.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult (eye) doctor immediately.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.



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Induce vomiting only upon the advice of a physician.

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

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. (the ear) Suspected of damaging the unborn child. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce: carbon monoxide and carbon dioxide Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Vapours are heavier than air and spread along ground. The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator. Ensure adequate ventilation. Remove persons to safety. Use personal protective clothing. Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8). Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



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Advice on safe handling

Keep container tightly closed. Vapours are heavier than air and spread along ground. Use only in thoroughly ventilated areas. Provide suitable extraction at the processing machines.

Provide suitable extraction at the processing machines

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Do not smoke.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to anti-explosion rules. Avoid temperatures above 50°C.

Hints on joint storage

Incompatible with: Oxidizing agents, Metal halogenides, Peroxides

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Spray coating material

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|------------|------------------------------|-----|-------|-----------|---------------|--------|
| 79-41-4 | Methacrylic acid | 20 | 72 | | TWA (8 h) | WEL |
| | | 40 | 143 | | STEL (15 min) | WEL |
| 67-56-1 | Methanol | 200 | 266 | | TWA (8 h) | WEL |
| | | 250 | 333 | | STEL (15 min) | WEL |
| 121-69-7 | N,N-Dimethylaniline | 5 | 25 | | TWA (8 h) | WEL |
| | | 10 | 50 | | STEL (15 min) | WEL |
| 100-42-5 | Styrene | 100 | 430 | | TWA (8 h) | WEL |
| | | 250 | 1080 | | STEL (15 min) | WEL |
| 13463-67-7 | Titanium dioxide, respirable | - | 4 | | TWA (8 h) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Pay attention to explosion protection guidelines.

Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Treat subsequently with skin cream.

Remove and wash contaminated clothes before re-use.



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Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

Hand protection

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

Skin protection

Long sleeved clothing (DIN EN ISO 6530) Solvent-resistant apron (EN 467).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid | | |
|--|------------------------------|--|-----|
| Colour: | lvoire | | |
| Odour: | Like styrene | | |
| | | Test met | hod |
| pH-Value: | | n.d. | |
| Changes in the physical state | | | |
| Melting point: | | n.d. | |
| Initial boiling point and boiling rang | e: | n.d. | |
| Sublimation point: | | n.a. | |
| Softening point: | | n.d. | |
| Flash point: | | 35 °C | |
| Flammability | | | |
| Solid: | | n.a. | |
| Gas: | | n.a. | |
| Explosive properties The product is considered non- | explosive; nevertheless expl | osive vapour/air mixture can be generate | d. |
| Lower explosion limits: | | 1,1 vol. % | |
| Upper explosion limits: | | n.d. | |
| Ignition temperature: | | 490 °C | |
| Auto-ignition temperature | | | |
| Solid: | | n.a. | |
| Gas: | | n.a. | |
| Decomposition temperature: | | n.d. | |
| Oxidizing properties Not oxidising. | | | |
| Vapour pressure: (at 20 °C) | | 6 hPa | |
| Density (at 20 °C): | | 1,14 - 1,2 g/cm³ | |



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| Bulk density: | n.a. | |
| Water solubility: (at 20 °C) | Immiscible | |
| Solubility in other solvents n.d. | | |
| Partition coefficient: | n.d. | |
| Viscosity / dynamic: | n.d. | |
| Viscosity / kinematic: (at 40 °C) | > 20,5 mm²/s | |
| Flow time: | > 60 s | 6 DIN/ISO 2431 |
| Vapour density: | n.d. | |
| Evaporation rate: | n.d. | |
| Solvent separation test: | < 3 % | |
| Solvent content: | < 5 % | |
| 9.2. Other information | | |

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with oxidizing agents. Reactions with peroxides.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Vapour/air mixtures are explosive at intensive warming. Heating can release vapours which can be ignited. Avoid temperatures above 50°C. If heating up polymerisation.

10.5. Incompatible materials

Oxidizing agents, Metal halogenides, Peroxides

10.6. Hazardous decomposition products

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases). Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled. No toxicological data available. Styrene LD50/oral/rat: 5000 mg/kg LD50/dermal/rat: > 2000 mg/kg LC50/inhalation/rat: 11,8 mg/l/4h



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Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains Neodecanoic acid, cobalt salt, 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (Styrene) Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Carcinogenicity. Dased on available data, the classification chiena

STOT-single exposure

May cause respiratory irritation. (Styrene)

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Styrene)

Aspiration hazard

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

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience

Other observations

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

May cause sensitization of susceptible persons by skin contact.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

Harmful to aquatic life with long lasting effects.

Styrene

LC50/Pimephales promelas/96 h = 4,02 mg/kg

EC50/Daphnia magna/48 h = 4,7 mg/kg

EC50/Pseudokirchneriela subcapitata/72 h > 4,9 mg/kg

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

Hazardous water pollutant.

Product is toxic to fish and their nutrient animals.

Further information

Do not flush into surface water or sanitary sewer system.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

080409

Can be incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Land transport (ADR/RID)

| <u>14.1. UN number:</u> | UN 1866 |
|---|---|
| 14.2. UN proper shipping name: | Resin solution |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| | |
| Classification code: | F1 |
| Limited quantity: | 5 L / 30 kg |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 30 |
| Tunnel restriction code: | D/E |
| Other applicable information (land tran | isport) |
| Viscous substance - excepted quanti | ty if in containers with a capacity up to 450 I (subsection 2.2.3.1.5 ADR). |
| Inland waterways transport (ADN) | |
| <u>14.1. UN number:</u> | UN 1866 |
| 14.2. UN proper shipping name: | Resin solution |

| 14.2. UN proper shipping name: | Resin solution |
|-----------------------------------|----------------|
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| | |
| Classification code: | F1 |
| Limited quantity: | 5 L / 30 kg |
| Excepted quantity: | E1 |



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Other applicable information (inland waterways transport)

Viscous substance - excepted quantity if in containers with a capacity up to 450 I (subsection 2.2.3.1.5 ADN).

Marine transport (IMDG)

| <u>14.1. UN number:</u> | UN 1866 |
|-----------------------------------|----------------|
| 14.2. UN proper shipping name: | Resin solution |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| | |
| Marine pollutant: | No |
| Limited quantity: | 5 L / 30 kg |
| Excepted quantity: | E1 |
| EmS: | F-E, S-E |

Other applicable information (marine transport)

Viscous substance - excepted quantity if in containers with a capacity up to 30 I (subsection 2.3.2.5 IMDG Code).

Air transport (ICAO-TI/IATA-DGR)

| | <u>14.1. UN number:</u> | UN 1866 | |
|-----------|--|----------------|-------|
| | 14.2. UN proper shipping name: | Resin solution | |
| | 14.3. Transport hazard class(es): | 3 | |
| | 14.4. Packing group: | III | |
| | Hazard label: | 3 | |
| | | | |
| | Limited quantity Passenger: | 10 L | |
| | Passenger LQ: | Y344 | |
| | Excepted quantity: | E1 | |
| | IATA-packing instructions - Passenger: | | 355 |
| | IATA-max. quantity - Passenger: | | 60 L |
| | IATA-packing instructions - Cargo: | | 366 |
| | IATA-max. quantity - Cargo: | | 220 L |
| <u>14</u> | I.5. Environmental hazards | | |
| | ENVIRONMENTALLY HAZARDOUS: | no | |

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

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 69: methanol

2004/42/EC (VOC):

< 5 %; < 90 g/l



| | | ccording to Regulation (EC) No 1907/ | 2006 | |
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| Information according to 20 (SEVESO III): | 012/18/EU | P5c FLAMMABLE LIQUIDS | | |
| National regulatory inforr | nation | | | |
| Employment restrictions: | | Observe restrictions to employment for work protection guideline' (94/33/EC) under the Maternity Protection Direction nursing mothers. | . Observe employment restriction | |
| 15.2. Chemical safety assess | sment | | | |
| For this substance a cl | nemical safety as | sessment has not been carried out. | | |
| SECTION 16: Other inform | | | | |
| SECTION 18. Other Inform | lation | | | |
| IMDG = International M IATA/ICAO = Internation MARPOL = Internation IBC-Code = Internation GHS = Globally Harmo REACH = Registration CAS = Chemical Abstr EN = European norm ISO = International Org DIN = Deutsche Indus PBT = Persistent Bioa vPvB = Very Persisten LD = Lethal dose LC = Lethal concentrat EC = Effect concentrat | Maritime Code for onal Air Transpor al Convention for nal Code for the ponized System or a, Evaluation, Aut ract Service ganization for Sta trie Norm ccumulative and t and very Bio-ar tion | Association / International Civil Aviation the Prevention of Pollution from Ships Construction and Equipment of Ships C Classification and Labelling of Chemic norization and Restriction of Chemicals Indardization Foxic cumulative | on Organization s Carrying Dangerous Chemicals in cals | |
| ic – wedian immobilisa | auon concentrati | n or median inhibitory concentration | | |
| Relevant H and EUH state | | - | | |
| | | liquid and vapour. | | |
| | Flammable liqui | • | | |
| | Toxic if swallowe | | | |
| | Harmful if swalle | ved. vallowed and enters airways | | |

- May be fatal if swallowed and enters airways. H304
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- May cause an allergic skin reaction. H317
- Causes serious eye damage. H318
- Causes serious eye irritation. H319
- H331 Toxic if inhaled.
- Harmful if inhaled. H332
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.



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EUH208

Contains Neodecanoic acid, cobalt salt, 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-, N-[(ethenylphenyl)methyl], Derivates, Hydrochlorides. May produce an allergic reaction.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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