

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP PRIMER HG 2

Revision date: 16.03.2021

Product code: 00359-1082

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

1.1. Product identifier

TIP TOP PRIMER HG 2

Art.-No.

525 2970, 525 2987, 525 2994, 525 3060

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

Use of the substance/mixture

Primer Coat

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---|-----------------------------|
| Company name: | TIP TOP Oberflächenschutz Elbe 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 sheet: sds@gbk-ingelheim.de | |

1.4. Emergency telephone number:

 INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
 Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226
 Acute Tox. 4; H312
 Acute Tox. 4; H332
 Skin Irrit. 2; H315
 Eye Irrit. 2; H319
 Lact.; H362
 STOT SE 3; H335
 STOT RE 2; H373
 Aquatic Chronic 2; H411

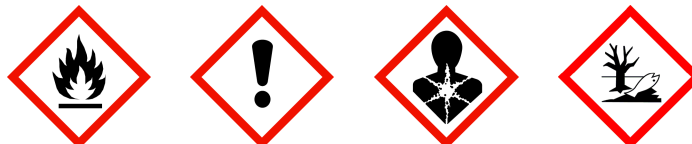
Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008
Hazard components for labelling

Reaction mass of ethylbenzene and xylene
 Alkanes, C14-17, chloro; chlorinated paraffins, C14-17

Signal word: Warning

Pictograms:

Hazard statements

| | |
|-----------|---|
| H226 | Flammable liquid and vapour. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

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| | |
|------|--|
| H362 | May cause harm to breast-fed children. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| 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. |
| P243 | Take action to prevent static discharges. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

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**

Polymer in organic solvent

Hazardous components

| CAS No | Chemical name | Quantity | | |
|------------|--|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| | Reaction mass of ethylbenzene and xylene | | | 50 - 80 % |
| | 905-588-0 | | 01-2119488216-32 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304 | | | |
| 85535-85-9 | Alkanes, C14-17, chloro; chlorinated paraffins, C14-17 | | | < 10 % |
| | 287-477-0 | 602-095-00-X | 01-2119519269-33 | |
| | Lact., Aquatic Acute 1, Aquatic Chronic 1; H362 H400 H410 EUH066 | | | |
| 108-88-3 | Toluene | | | < 1 % |
| | 203-625-9 | 601-021-00-3 | 01-2119471310-51 | |
| | Flam. Liq. 2, Repr. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H361d H315 H319 H336 H373 H304 H412 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|-----------|---|-----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| | 905-588-0 | Reaction mass of ethylbenzene and xylene | 50 - 80 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg STOT RE 2; H373: >= 10 - 100 | |
| 108-88-3 | 203-625-9 | Toluene | < 1 % |
| | | inhalation: LC50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg | |

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



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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 with soap and plenty of water.
Possible risk of resorption through skin.
Consult a doctor if skin irritation persists.

After contact with eyes

Remove contact lens.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.

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

Harmful in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
May cause harm to breastfed babies.
Attention. Beware, danger of aspiration.

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

Treat symptoms.
Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:
Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO_x).
Hydrogen chloride (HCl)
Chlorine and traces of phosgene.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.
Backfire at a long distance is possible.
Vapours are heavier than air and spread along ground.



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The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
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

General advice

Ensure adequate ventilation.
Keep away sources of ignition.
Keep away noninvolved persons.

For non-emergency personnel

Avoid contact with skin, eyes and clothing.
Do not breathe vapours.

For emergency responders

In case of vapour formation use respirator.
Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

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

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Informations for disposal look up chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed.
Vapours are heavier than air and spread along ground.
Keep a good ventilation and air-exhaust at the place of work.
Avoid contact with skin, eyes and clothing.

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.

Hints on joint storage

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

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7.3. Specific end use(s)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|-----------|-----------------------|-----|-------------------|---------------------|---------------|--------|
| 100-41-4 | Ethylbenzene | 100 | 442 | | TWA (8 h) | |
| | | 200 | 884 | | STEL (15 min) | |
| 108-88-3 | Toluene | 50 | 192 | | TWA (8 h) | |
| | | 100 | 384 | | STEL (15 min) | |
| 1330-20-7 | Xylene, mixed isomers | 50 | 221 | | TWA (8 h) | |
| | | 100 | 442 | | STEL (15 min) | |

Biological limit values

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|----------|---------------|--|-----------|---------------|---------------------------------|
| 108-88-3 | Toluene | Toluene | 0.03 mg/L | Urine | End of shift |
| 100-41-4 | Ethyl benzene | Mandelic acid and phenylglyoxylic acid | 0.7 g/g | Creatinine | End of shift at end of workweek |

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

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.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

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

Solvent-resistant apron (EN 467).

Respiratory protection

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

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

Physical state: Liquid
Colour: Black
Odour: Aromatic

Test method

pH-Value: n.d.

Changes in the physical state

Melting point/freezing point: n.d.

Boiling point or initial boiling point and boiling range: n.d.

Sublimation point: n.a.

Softening point: n.d.

Flash point: 25 °C

Sustaining combustion: Sustaining combustion

Flammability

Solid/liquid: n.a.

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits: n.d.

Upper explosion limits: n.d.

Auto-ignition temperature: 460 °C *)

Self-ignition temperature

Solid: n.a.

Gas: n.a.

Decomposition temperature: n.d.

Oxidizing properties

Not oxidising.

Vapour pressure: n.d.

Density (at 20 °C): 0,93 - 0,97 g/cm³

Bulk density: n.a.

Water solubility:
(at 20 °C) Immiscible**Solubility in other solvents**

n.d.

Partition coefficient n-octanol/water: n.d.

Viscosity / dynamic:
(at 25 °C) 500 - 600 mPa·s BrookfieldViscosity / kinematic:
(at 40 °C) > 20,5 mm²/s

Flow time: n.d.

Relative vapour density: n.d.

Evaporation rate: n.d.

Solvent separation test: 0 %

Solvent content: < 80 %

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9.2. Other information

*) Xylene (mixed isomers)

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 strong oxidising agents.

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.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Fire may produce:
Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO_x).
Hydrogen chloride (HCl)
Chlorine and traces of phosgene.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful in contact with skin.
Harmful if inhaled.
No toxic data available.
ATE_{mix}/dermal: ~ 1550 mg/kg
ATE_{mix}/inhalation: ~ 15 mg/l/4 h

ATE_{mix} calculated

ATE (dermal) 1864,4 mg/kg; ATE (inhalation vapour) 14,19 mg/l; ATE (inhalation dust/mist) 1,705 mg/l

Irritation and corrosivity

Causes skin irritation.
Causes serious eye irritation.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

May cause harm to breast-fed children. (Alkanes, C14-17, chloro; chlorinated paraffins, C14-17)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: 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. (Reaction mass of ethylbenzene and xylene)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Reaction mass of ethylbenzene and xylene)

Aspiration hazard

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

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Additional information on tests

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

11.2. Information on other hazards**Endocrine disrupting properties**

No data available

Other information

Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

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

Possible risk of resorption through skin.

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

Attention. Beware, danger of aspiration.

May cause sensitization of susceptible persons by skin contact.

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

Ecological data are not available.

Toxic 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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

No data available

12.7. Other adverse effects

Hazard to waters.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

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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.

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|-----------|
| 14.1. UN number: | UN 1133 |
| 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 |
| Limited quantity: | 5 L / 30 kg |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 30 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|-----------|
| 14.1. UN number: | UN 1133 |
| 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 |
| Limited quantity: | 5 L / 30 kg |
| Excepted quantity: | E1 |

Marine transport (IMDG)

| | |
|--|---|
| 14.1. UN number: | UN 1133 |
| 14.2. UN proper shipping name: | Adhesives (Alkanes, C14-17, chloro, chlorinated paraffines, C14-17) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |



| | |
|--------------------|-------------|
| Marine pollutant: | Yes |
| Limited quantity: | 5 L / 30 kg |
| Excepted quantity: | E1 |
| EmS: | F-E, S-D |

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Air transport (ICAO-TI/IATA-DGR)

| | |
|--|---|
| 14.1. UN number: | UN 1133 |
| 14.2. UN proper shipping name: | Adhesives |
| 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 |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Maritime transport in bulk according to IMO instruments

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 3, Entry 40, Entry 48, Entry 75

2004/42/EC (VOC): < 80 %

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,6,7,9,11,12,14.

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Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 3; H226 | On basis of test data |
| Acute Tox. 4; H312 | Calculation method |
| Acute Tox. 4; H332 | Calculation method |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| Lact.; H362 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H362 May cause harm to breast-fed children.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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.)