



**Safety Data Sheet**

according to UK REACH Regulation

**ADDINOL Chisel Paste**

Revision date: 19.04.2023

Product code: 717049

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**Hazardous components**

| CAS No       | Chemical name  |          |                  | Quantity |
|--------------|--|----------|------------------|----------|
|              | EC No  | Index No | REACH No         |          |
|              | Classification (GB CLP Regulation)                           |          |                  |          |
| 7440-50-8    | Copper, powder, 30-40 µm                                     |          |                  | < 10 %   |
|              | 231-159-6  |          | 01-2119480154    |          |
| 1471316-72-9 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts |          |                  | < 10 %   |
|              | 939-603-7  |          | 01-2119978241-36 |          |
|              | Skin Sens. 1; H317   |          |                  |          |

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   |  |          |
| 7440-50-8    | 231-159-6  | Copper, powder, 30-40 µm                                     | < 10 %   |
|              | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 300 - 500 mg/kg  |  |          |
| 1471316-72-9 | 939-603-7  | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | < 10 %   |
|              | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 - < 20000 mg/kg Skin Sens. 1; H317: >= 2 - 100 |  |          |

**Further Information**

The product does not contain any dangerous substances with concentrations reaching or exceeding the limits acc. to 1272/2008 [GHS].

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

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

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

**After inhalation**

Not applicable because it is a solution-free paste.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Use skin protection ointment after cleaning.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

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Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. alcohol resistant foam. Sand.

##### **Unsuitable extinguishing media**

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. carbon black.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### **General advice**

High slip hazard because of leaking or spilled product. Avoid contact with skin, eyes and clothes. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

##### **Other information**

Take up mechanically. Dispose of waste according to applicable legislation. Clean contaminated articles and floor according to the environmental legislation.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

Avoid contact with skin, eyes and clothes.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

##### **Advice on general occupational hygiene**

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

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**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.  
Keep away from: Oxidizing agents.

**Further information on storage conditions**

Protect against: UV-radiation/sunlight, frost, heat.  
Recommended storage temperature: 5 - 40°C

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

Further information: see technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No    | Substance                       | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|---------------------------------|-----|-------------------|-----------|---------------|--------|
| 7440-50-8 | Copper, dusts and mists (as Cu) | -   | 1                 |           | TWA (8 h)     | WEL    |
|           |                                 | -   | 2                 |           | STEL (15 min) | WEL    |

**DNEL/DMEL values**

| CAS No       | Substance  | Exposure route | Effect   | Value                    |
|--------------|--|----------------|----------|--------------------------|
| 7440-50-8    | Copper, powder, 30-40 µm                                     |                |          |                          |
|              | Worker DNEL, long-term                                       | dermal         | systemic | 137 mg/kg bw/day         |
|              | Worker DNEL, acute   | dermal         | systemic | 273 mg/kg bw/day         |
|              | Consumer DNEL, long-term                                     | dermal         | systemic | 137 mg/kg bw/day         |
|              | Consumer DNEL, acute   | dermal         | systemic | 273 mg/kg bw/day         |
| 1471316-72-9 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts |                |          |                          |
|              | Worker DNEL, long-term                                       | inhalation     | systemic | 35,26 mg/m <sup>3</sup>  |
|              | Worker DNEL, long-term                                       | dermal         | systemic | 25 mg/kg bw/day          |
|              | Worker DNEL, acute   | dermal         | local    | 1,04 mg/cm <sup>2</sup>  |
|              | Consumer DNEL, long-term                                     | inhalation     | systemic | 8,7 mg/m <sup>3</sup>    |
|              | Consumer DNEL, long-term                                     | dermal         | systemic | 12,5 mg/kg bw/day        |
|              | Consumer DNEL, acute   | dermal         | local    | 0,518 mg/cm <sup>2</sup> |
|              | Consumer DNEL, long-term                                     | oral           | systemic | 2,5 mg/kg bw/day         |

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**PNEC values**

| CAS No   | Substance  | Value          |
|--|--|----------------|
| Environmental compartment                        |  |                |
| 7440-50-8  | Copper, powder, 30-40 µm                                     |                |
| Freshwater                                       |  | 0,0063 mg/l    |
| Marine water                                     |  | 0,0052 mg/l    |
| Freshwater sediment                              |  | 87 mg/kg       |
| Marine sediment                                  |  | 676 mg/kg      |
| Micro-organisms in sewage treatment plants (STP) |  | 0,23 mg/l      |
| Soil   |  | 65 mg/kg       |
| 1471316-72-9                                     | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts |                |
| Freshwater                                       |  | 0,1 mg/l       |
| Freshwater (intermittent releases)               |  | 1 mg/l         |
| Marine water                                     |  | 0,1 mg/l       |
| Freshwater sediment                              |  | 45211 mg/kg    |
| Marine sediment                                  |  | 45211 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |  | 1000 mg/l      |
| Soil   |  | 36739,74 mg/kg |

**Additional advice on limit values**

The product does not contain any relevant quantities of substances with legally established exposure limitation.

**8.2. Exposure controls****Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

**Hand protection**

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

**Skin protection**

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

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

|                  |                |
|------------------|----------------|
| Physical state:  | Paste          |
| Colour:          | brown - copper |
| Odour:           | characteristic |
| Odour threshold: | not determined |

**Test method**

|   |                         |                      |
|---|-------------------------|----------------------|
| Melting point/freezing point:                             | > 250 °C                |                      |
| Boiling point or initial boiling point and boiling range: | > 250 °C                |                      |
| Flammability:   | No data available       |                      |
| Lower explosion limits:                                   | No data available       |                      |
| Upper explosion limits:                                   | No data available       |                      |
| Flash point:  | > 250 °C                | ASTM D 3278          |
| Auto-ignition temperature:                                | No data available       |                      |
| Decomposition temperature:                                | No data available       |                      |
| pH-Value:   | not applicable          |                      |
| Viscosity / kinematic:<br>(at 40 °C)                      | 350 mm <sup>2</sup> /s  | DIN 51562 - Base oil |
| Water solubility:   | insoluble               |                      |
| Solubility in other solvents                              |                         |                      |
| No data available   |                         |                      |
| Partition coefficient n-octanol/water:                    | No data available       |                      |
| Vapour pressure:  | No data available       |                      |
| Density (at 20 °C):                                       | 0,960 g/cm <sup>3</sup> | DIN 51757            |
| Relative vapour density:                                  | No data available       |                      |

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties  
evaluation: not Explosive.

Self-ignition temperature

Solid: incapable of spontaneous heating.

Gas: No data available

Oxidizing properties

No data available

**Other safety characteristics**

Evaporation rate: No data available

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

The product is stable under storage at normal ambient temperatures.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Do not overheat to avoid decomposition by heat.

Refer to chapter 7 No further action is necessary.

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**10.5. Incompatible materials**

Reacts with: Oxidizing agents, strong.

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides. carbon black.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**Based on available data, the classification criteria are not met.  
Mixture not tested.

| CAS No       | Chemical name  |                              |         |                     |                                       |
|--------------|--|------------------------------|---------|---------------------|---------------------------------------|
|              | Exposure route   | Dose                         | Species | Source              | Method                                |
| 7440-50-8    | Copper, powder, 30-40 µm                                     |                              |         |                     |                                       |
|              | oral   | LD50 300 - 500 mg/kg         | Rat     | Study report (2001) | OECD Guideline 423                    |
|              | dermal   | LD50 > 2000 mg/kg            | Rat     | Study report (2001) | OECD Guideline 402                    |
| 1471316-72-9 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts |                              |         |                     |                                       |
|              | oral   | LD50 > 10000 - < 20000 mg/kg | Rat     | Study report (1972) | Adult albino male Sprague-Dawley rats |
|              | dermal   | LD50 > 2000 mg/kg            | Rat     | Study report (1989) | OECD Guideline 402                    |

**Irritation and corrosivity**

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

**Sensitising effects**

Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**Based on available data, the classification criteria are not met.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.**Aspiration hazard**

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

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

not applicable

**Further information**

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

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

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

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Mixture not tested.

| CAS No       | Chemical name  |                | Dose    | [h]   [d] | Species   | Source   | Method   |
|--------------|--|----------------|---------|-----------|---|--|--|
| 7440-50-8    | Copper, powder, 30-40 µm                                     |                |         |           |   |  |  |
|              | Acute fish toxicity  | LC50<br>mg/l   | 0,193   | 96 h      | Pimephales promelas                                       | Study report<br>(1996)                         | measurements<br>were conducted<br>by standard  |
|              | Acute algae toxicity   | ErC50<br>mg/l  | 0,152   | 72 h      | Raphidocelis<br>subcapitata                               | Publication (2005)                             | OECD Guideline<br>201                          |
|              | Acute crustacea toxicity                                     | EC50<br>mg/l   | 0,007   | 48 h      | Daphnia magna   | Study report<br>(1978)                         | - Test were<br>conducted on<br>Daphnia magna t |
|              | Fish toxicity  | NOEC<br>mg/l   | 0,123   | 12 d      | Atherinops affinis  | Mar. Environ. Res.<br>31: 17-35 (1991)         | Three tests are<br>reported,<br>designed to de |
|              | Algae toxicity   | NOEC<br>mg/l   | 0,0102  | 19 d      | other aquatic plant:<br>giant kelp Macrocystis<br>pyrife  | Mar. Ecol. Prog.<br>Ser. 68: 147 - 156<br>(199 | Tests were<br>conducted to<br>determine the ef |
|              | Crustacea toxicity   | NOEC<br>mg/l   | 0,033   | 14 d      | Penaeus mergulensis<br>and Penaeus<br>monodon             | Bull. Environ.<br>Contain. Toxicol.<br>(1995)  | The effects of<br>dissolved copper<br>on the g |
| 1471316-72-9 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts |                |         |           |   |  |  |
|              | Acute fish toxicity  | LL50<br>mg/l   | > 100   | 96 h      | Oncorhynchus mykiss                                       | Study report<br>(2005)                         | OECD Guideline<br>203                          |
|              | Acute algae toxicity   | ErC50<br>mg/l  | > 1000  | 72 h      | Pseudokirchneriella<br>subcapitata                        | Study report<br>(1994)                         | EPA OTS<br>797.1050                            |
|              | Acute crustacea toxicity                                     | EL50<br>mg/l   | > 1000  | 48 h      | Daphnia magna   | Study report<br>(1993)                         | EPA OTS<br>797.1300                            |
|              | Acute bacteria toxicity                                      | (EC50<br>mg/l) | > 10000 | 3 h       | activated sludge of a<br>predominantly<br>domestic sewage | Study report<br>(1994)                         | OECD Guideline<br>209                          |

**12.2. Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

**12.3. Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water**

| CAS No       | Chemical name  | Log Pow |
|--------------|--|---------|
| 1471316-72-9 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | > 6,91  |

**BCF**

| CAS No       | Chemical name  | BCF       | Species                      | Source               |
|--------------|--|-----------|------------------------------|----------------------|
| 7440-50-8    | Copper, powder, 30-40 µm                                     | 0,02 - 20 | Crangon crangon              | Symp. Biologica. Hun |
| 1471316-72-9 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | 70,8      | Fish, not further specified. | Study report (2013)  |

**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 UK REACH.

**12.6. Endocrine disrupting properties**



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

**12.7. Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled leakage of product into the environment.

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

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

**List of Wastes Code - residues/unused products**

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

**List of Wastes Code - 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 hazardous substances; hazardous waste

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away. Evidence for disposal must be provided.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Inland waterways transport (ADN)****14.1. UN number or ID number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Marine transport (IMDG)****14.1. UN number or ID number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:** -**14.2. UN proper shipping name:** -**14.3. Transport hazard class(es):** -**14.4. Packing group:** -**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

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Unless specified otherwise, general measures for safe transport must be followed.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**Other applicable information**

No dangerous good in sense of these transport regulations.

**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 75

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

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

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

This data sheet contains changes from the previous version in section(s): 2,4,6,7,9,11,12,16.

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Relevant H and EUH statements (number and full text)**

|        |  |
|--------|--|
| H317   | May cause an allergic skin reaction.   |
| EUH208 | Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction. |

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EUH210 Safety data sheet available on request.

**Further Information**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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