

## Safety Data Sheet

according to UK REACH Regulation

### ContraFlux BC

Revision date: 31.08.2023

Product code: 090611-CN

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

### 1.1. Product identifier

ContraFlux BC

UFI: UJS2-C0HG-M00U-MMJR

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

#### Use of the substance/mixture

Electronics cleaner for spray and immersion plants

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

|                         |                               |                           |
|-------------------------|-------------------------------|---------------------------|
| Company name:           | kolb Cleaning Technology GmbH |                           |
| Street:                 | Karl-Arnold-Str. 12           |                           |
| Place:                  | D-47877 Willich               |                           |
| Telephone:              | +49-2154-947938               | Telefax: +49-2154-947947  |
| e-mail:                 | info@kolb-ct.com              |                           |
| Contact person:         | Christian Linker              | Telephone: +49-2324-97980 |
| e-mail:                 | christian.linker@kolb-ct.com  |                           |
| Internet:               | www.kolb-ct.com               |                           |
| Responsible Department: | Labor/ QS                     |                           |

### 1.4. Emergency telephone number:

+49/ (0) 23 24/ 979817 (EU)  
+61 4 19 809 805 (Australia)  
+1 970 443 9233 (USA)  
Schweiz: 145

### Further Information

|                                     |                           |
|-------------------------------------|---------------------------|
| Australia:                          | USA:                      |
| kolb Cleaning Technology AP PTY LTD | kolb USA LLC              |
| 6/150 Canterbury Road               | 410 Sunset, Unit C        |
| NSW 2200 Bankstown                  | 80501 Longmont – CO       |
| Phone: +61 2 97900273               | Phone 001- 970-532-5100   |
| Mobile +61 4 19 809 805             | Mobile: 001- 970-443-9233 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Skin Corr. 1; H314  
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

##### Hazard components for labelling

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether  
2-aminoethanol; ethanolamine

Signal word: Danger

Pictograms:



#### Hazard statements

H314 Causes severe skin burns and eye damage.

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### Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: 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.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Cleaner on the basis of (according to EC Detergents Regulation 648/2004): anionic surfactants (corrosion inhibitor); glycols, alkalis, defoamers

#### Hazardous components

| CAS No     | Chemical name   |              |                  | Quantity   |
|------------|---|--------------|------------------|------------|
|            | EC No   | Index No     | REACH No         |            |
|            | Classification (GB CLP Regulation)  |              |                  |            |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem  |              |                  | 5 - < 15 % |
|            | 252-104-2   |              | 01-2119450011-60 |            |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether  |              |                  | 1 - < 5 %  |
|            | 203-961-6   | 603-096-00-8 |                  |            |
|            | Eye Irrit. 2; H319  |              |                  |            |
| 141-43-5   | 2-aminoethanol; ethanolamine  |              |                  | 1 - < 5 %  |
|            | 205-483-3   | 603-030-00-8 |                  |            |
|            | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H332 H312 H302 H314 H318 H335 |              |                  |            |

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   |  |            |
| 34590-94-8 | 252-104-2  | Dipropylene glycol monomethyl ether, Isomerengem             | 5 - < 15 % |
|            | dermal: LD50 = 19020 mg/kg; oral: LD50 = 5130 mg/kg  |  |            |
| 112-34-5   | 203-961-6  | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 1 - < 5 %  |
|            | dermal: LD50 = 2746 mg/kg; oral: LD50 = 5660 mg/kg   |  |            |
| 141-43-5   | 205-483-3  | 2-aminoethanol; ethanolamine                                 | 1 - < 5 %  |
|            | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2504 mg/kg; oral: LD50 = 1089 mg/kg - STOT SE 3; H335: >= 5 - 100 |  |            |

#### Labelling for contents according to Regulation (EC) No 648/2004

< 5 % phosphates.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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#### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Call a physician in any case!

#### 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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Dry extinguishing powder, Foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder

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

Non-flammable. Carbon dioxide (CO<sub>2</sub>), Burning produces heavy smoke., Carbon monoxide

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

##### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Special danger of slipping by leaking/spilling product. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains.

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

##### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Handle and open container with care. Wear personal protection equipment (refer to section 8).

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

No special fire protection measures are necessary.

##### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Personal protection equipment

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep/Store only in original container.

##### Hints on joint storage

No special measures are necessary.

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

Electronics cleaner for spray and immersion plants

### 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 |
|------------|----------------------------------|-----|-------------------|-----------|---------------|--------|
| 34590-94-8 | (2-methoxymethylethoxy) propanol | 50  | 308               |           | TWA (8 h)     | WEL    |
| 112-34-5   | 2-(2-Butoxyethoxy)ethanol        | 10  | 67.5              |           | TWA (8 h)     | WEL    |
|            |                                  | 15  | 101.2             |           | STEL (15 min) | WEL    |
| 141-43-5   | 2-Aminoethanol                   | 1   | 2.5               |           | TWA (8 h)     | WEL    |
|            |                                  | 3   | 7.6               |           | STEL (15 min) | WEL    |
| 1310-58-3  | Potassium hydroxide              | -   | 2                 |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls

##### Appropriate engineering controls

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

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#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: goggles.

##### Hand protection

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

##### Skin protection

Use of protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                         |
|---|-------------------------|
| Physical state:   | Liquid                  |
| Colour:   | transparent             |
| Odour:  | neutral                 |
| Melting point/freezing point:                             | not determined          |
| Boiling point or initial boiling point and boiling range: | 100 °C                  |
| Flammability:   | not determined          |
| Lower explosion limits:                                   | not determined          |
| Upper explosion limits:                                   | not determined          |
| Flash point:  | > 100 °C                |
| Auto-ignition temperature:                                | not determined          |
| Decomposition temperature:                                | not determined          |
| pH-Value (at 20 °C):                                      | 13,4                    |
| Viscosity / kinematic:<br>(at 40 °C)                      | 21 mm <sup>2</sup> /s   |
| Water solubility:   | easily soluble          |
| Solubility in other solvents                              | not determined          |
| Partition coefficient n-octanol/water:                    | not determined          |
| Vapour pressure:  | not determined          |
| Density (at 20 °C):                                       | 1,016 g/cm <sup>3</sup> |
| Relative vapour density:                                  | not determined          |

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive.

##### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

|                   |                |
|-------------------|----------------|
| Evaporation rate: | not determined |
| Solid content:    | not determined |

## SECTION 10: Stability and reactivity

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#### 10.1. Reactivity

Possibility of hazardous reactions.

#### 10.2. Chemical stability

Chemical stability

#### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Peroxides, Oxidizing agent. May cause strong formation of hydrogen by contact with amphoteric metals (e.g. alumina, lead, zinc) - danger of explosion.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

Keep away from: Acid, Oxidizing agent, Peroxides.

#### 10.6. Hazardous decomposition products

not known

### 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.

##### ATEmix calculated

ATE (oral) 49821,6 mg/kg; ATE (dermal) 50324,8 mg/kg; ATE (inhalation vapour) 503,25 mg/l; ATE (inhalation dust/mist) 68,625 mg/l

| CAS No     | Chemical name  |                  |         |        |        |
|------------|--|------------------|---------|--------|--------|
|            | Exposure route   | Dose             | Species | Source | Method |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem             |                  |         |        |        |
|            | oral   | LD50 5130 mg/kg  | Ratte   | AMA    |        |
|            | dermal   | LD50 19020 mg/kg | Ratte   |        |        |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |                  |         |        |        |
|            | oral   | LD50 5660 mg/kg  |         |        |        |
|            | dermal   | LD50 2746 mg/kg  |         |        |        |
| 141-43-5   | 2-aminoethanol; ethanolamine                                 |                  |         |        |        |
|            | oral   | LD50 1089 mg/kg  | Rat     |        |        |
|            | dermal   | LD50 2504 mg/kg  | Rabbit  |        |        |
|            | inhalation vapour  | ATE 11 mg/l      |         |        |        |
|            | inhalation dust/mist   | ATE 1,5 mg/l     |         |        |        |

##### Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)

Causes serious eye damage. (On basis of test data)

##### Sensitising effects

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

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

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

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### 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.

### Aspiration hazard

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

## 11.2. Information on other hazards

### Other information

There are no other hazards that require special attention.

### Further information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No     | Chemical name  |               |           |         |  |        |
|------------|--|---------------|-----------|---------|--|--------|
|            | Aquatic toxicity   | Dose          | [h]   [d] | Species | Source                                     | Method |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem             |               |           |         |  |        |
|            | Acute fish toxicity  | LC50<br>mg/l  | >10000    | 96 h    | Pimephales promelas<br>(Amerikan. Elritze) |        |
|            | Acute algae toxicity   | ErC50<br>mg/l | >969      | 96 h    | Alge                                       |        |
|            | Acute crustacea toxicity                                     | EC50<br>mg/l  | 1919      | 48 h    | Daphnia magna<br>(Wasserfloh)              |        |
|            | Crustacea toxicity   | NOEC          | 12 mg/l   |         | Daphnia magna<br>(Wasserfloh)              |        |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |               |           |         |  |        |
|            | Acute fish toxicity  | LC50<br>mg/l  | 1300      | 96 h    |  |        |
|            | Acute algae toxicity   | ErC50         | 100 mg/l  |         |  |        |
|            | Acute crustacea toxicity                                     | EC50          | 100 mg/l  | 48 h    |  |        |
| 141-43-5   | 2-aminoethanol; ethanolamine                                 |               |           |         |  |        |
|            | Acute fish toxicity  | LC50          | 349 mg/l  | 96 h    |  |        |
|            | Acute algae toxicity   | ErC50         | 2,8 mg/l  | 72 h    |  |        |
|            | Acute crustacea toxicity                                     | EC50          | 65 mg/l   | 48 h    |  |        |

### 12.2. Persistence and degradability

The product has not been tested.

| CAS No     | Chemical name                                    |       |    |        |
|------------|--|-------|----|--------|
|            | Method   | Value | d  | Source |
|            | Evaluation                                       |       |    |        |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem |       |    |        |
|            | OECD 301E  | >70%  | 28 |        |
|            | biologisch abbaubar                              |       |    |        |

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No     | Chemical name                                    | Log Pow |
|------------|--|---------|
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem | -0,6    |

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**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

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

The product has not been tested.

**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.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

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

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

**Inland waterways transport (ADN)****14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

No

**14.6. Special precautions for user**

No information available.

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

not applicable

**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 55, Entry 75

2010/75/EU (VOC): 14,353 % (145,822 g/l)

2004/42/EC (VOC): 17,353 % (176,302 g/l)



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Information according to 2012/18/EU  
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Regulation (EC) No. 648/2004 [Detergents regulation]. To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

2 - obviously hazardous to water

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).



CLEANING TECHNOLOGY  
Made in Germany

kolb Cleaning Technology GmbH

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#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Skin Corr. 1; H314 | On basis of test data    |
| Eye Dam. 1; H318   | On basis of test data    |

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

|      |  |
|------|--|
| H302 | Harmful if swallowed.                    |
| H312 | Harmful in contact with skin.            |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |
| H319 | Causes serious eye irritation.           |
| H332 | Harmful if inhaled.                      |
| H335 | May cause respiratory irritation.        |

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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