

Safety Data Sheet

according to UK REACH Regulation

Multielement-Standardlösung 2 Elemente in Salzsäure 1 mol/l

Revision date: 27.06.2022 Product code: 29365 Page 1 of 13

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

1.1. Product identifier

Multielement-Standardlösung 2 Elemente in Salzsäure 1 mol/l UFI: 54AM-V278-F008-EQ8Q

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Fa. Bernd Kraft GmbH Company name: Street: Stempelstraße 6 Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

info@berndkraft.de e-mail:

Abteilung Produktsicherheit Contact person: Telephone: 0203/5194-107/117

e-mail: produktsicherheit@berndkraft.de

www.berndkraft.de Internet:

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

nickel dichloride

Signal word: Warning

Pictograms:





Hazard statements

H290 May be corrosive to metals.



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H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P406 Store in a corrosion-resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

| CAS No | Chemical name | | | | | |
|-----------|--|---|-------|----|--|--|
| | EC No | Index No | REACH | lo | | |
| | Classification (GB CLP Regulation) | | | | | |
| 7647-01-0 | Hydrochloric acid | | | | | |
| | 231-595-7 | 231-595-7 017-002-01-X 01-2119484862-27 | | | | |
| | Skin Corr. 1B, STOT SE 3; | Corr. 1B, STOT SE 3; H314 H335 | | | | |
| 7718-54-9 | nickel dichloride | | | | | |
| | 231-743-0 | 028-011-00-6 | | | | |
| | Carc. 1A, Muta. 2, Repr. 1B, Acute Tox. 3, Acute Tox. 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H350i H341 H360D H331 H301 H315 H334 H317 H372 H400 H410 | | | | | |

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. | Specific Conc. Limits, M-factors and ATE | | | | |
| 7647-01-0 | 231-595-7 Hydrochloric acid | | | | | |
| | · · · · · · · · · · · · · · · · · · · | H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 3; H335: >= 10 - 100 | | | | |
| 7718-54-9 | 231-743-0 | nickel dichloride | < 0.1 % | | | |
| | mg/kg Skin Irri | | | | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

No data available

After inhalation

Provide fresh air.

Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Hydrogen chloride (HCI)

5.3. Advice for firefighters

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

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel



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Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

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

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

Read label before use.

When using do not eat, drink, smoke, sniff.

Handle and open container with care.

Use personal protection equipment.

Provide adequate ventilation.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. 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. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities



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Requirements for storage rooms and vessels

Corrosive to metals.

Unsuitable container/equipment material: Metal

The product develops hydrogen in an aqueous solution in contact with metals.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|-----------|--|-----|-------|-----------|---------------|--------|
| 7647-01-0 | Hydrogen chloride (gas and aerosol mists) | 1 | 2 | | TWA (8 h) | WEL |
| | | 5 | 8 | | STEL (15 min) | WEL |
| - | Nickel and its inorganic compounds (except nickel tetracarbonyl): water-soluble nickel compounds (as Ni) | - | 0.1 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | | | | | |
|--------------------------|-------------------|----------------|----------|-----------------------|--|--|
| DNEL type | | Exposure route | Effect | Value | | |
| 7647-01-0 | Hydrochloric acid | | | | | |
| Worker DNEL, | long-term | inhalation | local | 8 mg/m³ | | |
| Worker DNEL, | acute | inhalation | local | 15 mg/m³ | | |
| Consumer DN | EL, long-term | inhalation | local | 8 mg/m³ | | |
| Consumer DNEL, acute | | inhalation | local | 15 mg/m³ | | |
| 7718-54-9 | nickel dichloride | | | | | |
| Worker DNEL, | acute | inhalation | local | 1,6 mg/m³ | | |
| Consumer DN | EL, acute | inhalation | systemic | 8,8 mg/m³ | | |
| Consumer DN | EL, acute | inhalation | local | 0,1 mg/m³ | | |
| Worker DNEL, | acute | inhalation | systemic | 104 mg/m³ | | |
| Consumer DNEL, long-term | | oral | systemic | 0,02 mg/kg bw/day | | |
| Consumer DNEL, acute | | oral | systemic | 0,012 mg/kg bw/day | | |



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PNEC values

| CAS No | Substance | | | | | |
|--|---------------------------|-------------|--|--|--|--|
| Environmenta | Environmental compartment | | | | | |
| 7718-54-9 | nickel dichloride | | | | | |
| Freshwater | | 0,0071 mg/l | | | | |
| Freshwater (intermittent releases) 0 mg | | | | | | |
| Marine water | 0,0086 mg/l | | | | | |
| Freshwater se | 109 mg/kg | | | | | |
| Marine sedim | 109 mg/kg | | | | | |
| Secondary po | 0,12 mg/kg | | | | | |
| Micro-organisms in sewage treatment plants (STP) 0,3 | | | | | | |
| Soil 29,9 n | | | | | | |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

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.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.



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Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: odourless

Odour threshold: No data available

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and
?

boiling range:

Sublimation point:

Softening point:

No data available

No data available

Pour point:

No data available

No data available:

Flash point: X

Flammability

Solid/liquid: not applicable
Gas: not applicable

Explosive properties

No data available

Lower explosion limits:

Upper explosion limits:

not determined

not determined

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined
pH-Value: <1
Viscosity / dynamic: No data available
Viscosity / kinematic: No data available
Flow time: No data available

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

Density:

No data available

Bulk density:

No data available

No data available

No data available

not determined

9.2. Other information



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Information with regard to physical hazard classes

Sustaining combustion:

No data available

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test:

Solvent content:

Solid content:

Evaporation rate:

No data available

0

not determined

Further Information
Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye)

10.4. Conditions to avoid

none

10.5. Incompatible materials

Keep away from: Metal.

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Acute toxicity

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

| CAS No | Chemical name | Chemical name | | | | | | | |
|-----------|----------------------|-------------------|----------|---------|--|--------------------|--|--|--|
| | Exposure route | Dose | | Species | Source | Method | | | |
| 7718-54-9 | nickel dichloride | nickel dichloride | | | | | | | |
| | oral | LD50 mg/kg | 500 | Rat | Regul Toxicol and Pharmacol (doi.org/10. | OECD Guideline 425 | | | |
| | inhalation vapour | ATE | 3 mg/l | | | | | | |
| | inhalation dust/mist | ATE | 0,5 mg/l | | | | | | |

Irritation and corrosivity

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



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Sensitising effects

May cause an allergic skin reaction. (nickel dichloride)

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.

Aspiration hazard

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

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the preparation/mixture itself.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



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| CAS No | Chemical name | Chemical name | | | | | | |
|-----------|--------------------------|---------------|----------|-------------------------|---------------|---|---|--|
| | Aquatic toxicity | Dose | | [h] [d] Species | ; | Source | Method | |
| 7647-01-0 | Hydrochloric acid | | | | | | | |
| | Acute fish toxicity | LC50 | 862 mg/l | 96 h Leucisc | us idus | | | |
| 7718-54-9 | nickel dichloride | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 15,3 | 96 h Oncorhy | ynchus mykiss | Aquatic Toxicology 63 (2003) 65-82 (2003 | other: not reported | |
| | Acute algae toxicity | ErC50 mg/l | 0,263 | 72 h Sperma exsultar | | Publication (2009) | OECD Guideline 201 | |
| | Acute crustacea toxicity | EC50 mg/l | > 0,2 | 48 h Cerioda | phnia dubia | Environmental Toxicology and Chemistry. | other: comparable to USEPA, Methods for | |
| | Fish toxicity | NOEC mg/l | 0,04 | 8 d Danio re | erio | Arch. Environ. Contam. Toxicol. 21:126-1 | other: Swedish Standard SS 02 81 93 | |
| | Algae toxicity | NOEC | 0,6 mg/l | 14 d Anabae | na cylindrica | Environ. Pollut. (Series A). 25(4):241-2 | other: not reported | |
| | Crustacea toxicity | NOEC mg/l | 0,09 | 21 d Daphnia | a magna | Water Res. 23(4):501-510 (1989) | other: DIN 38412, Part II | |
| | Acute bacteria toxicity | (EC50 | 33 mg/l) | 0,5 h Activate | ed sludge | Journal of Hazardous Materials. B139:332 | ISO 8192 | |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|-------------------|-----|------------------|----------------------|
| 7718-54-9 | nickel dichloride | 39 | Chlorella salina | J. Mar. Biol. Ass. U |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

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

There are no data available on the mixture itself.

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

Discharge into the environment must be avoided.

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Further information

Do not allow to enter into surface water or drains.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

Contaminated packaging

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es): 14.4. Packing group: Ш 8 Hazard label: Classification code: C1 **Special Provisions:** 520 Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 80 Ε Tunnel restriction code:

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Classification code:C1Special Provisions:520Limited quantity:5 LExcepted quantity:E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:223Limited quantity:5 LExcepted quantity:E1EmS:F-A. S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID



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 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 III

 Hazard label:
 8

 Special Provisions:
 A3 A803

Limited quantity Passenger: 1 L
Passenger LQ: Y841
Excepted quantity: E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: strongly corrosive.

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 27, Entry 75

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): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

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): 1,2,4,5,6,7,8,9,10,12,13,14,16.

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%

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.



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| H301 | Toxic if swallowed. | |
| H314 | Causes severe skin burns and eye damage. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H331 | Toxic if inhaled. | |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| H335 | May cause respiratory irritation. | |
| H341 | Suspected of causing genetic defects. | |
| H350i | May cause cancer by inhalation. | |
| H360D | May damage the unborn child. | |
| H372 | Causes damage to organs through prolonged or repeated exposure. | |
| H400 | Very toxic to aquatic life. | |
| H410 | Very toxic to aquatic life with long lasting effects. | |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The 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.)