

Revision: 27.06.2025

Product code: AC15.01435

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Persulfate buffer solution

UFI: 58FJ-J2HG-JWC1-WKTV

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

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem Services, Unipessoal, Lda
Street: Rua de Júlio Dinis 676 7º
Place: N-4050-320 Porto
Telephone: +351 226002917
E-mail: info@analytichem.com
Contact person: SDS service department
E-mail: SDS@analytichem.com
Internet: www.analytichem.com
Responsible Department: SDS service department

Supplier or manufacturer details

Company name: AnalytiChem Belgium NV
Street: Industriezone "De Arend" 2
Place: B-8210 Zedelgem
Telephone: +32 50 28 83 20
E-mail: info.be@analytichem.com
Contact person: SDS service department
E-mail: SDS@analytichem.com
Responsible Department: AnalytiChem:
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333

1.4. Emergency telephone**number:**

+44 20 3807 3798 (CHEMTREC)

Further Information

No data available

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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Ox. Liq. 3; H272
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Resp. Sens. 1; H334
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

disodium peroxodisulphate

Signal word: Danger

Pictograms:

**Hazard statements**

| | |
|------|--|
| H272 | May intensify fire; oxidiser. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P220 | Keep away from clothing and other combustible materials. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing and eye protection/face protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|-----------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 7775-27-1 | disodium peroxodisulphate | | | 10 - < 15 % |
| | 231-892-1 | | 01-2119495975-15 | |
| | Ox. Sol. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H272 H302 H315 H319 H334 H317 H335 | | | |
| 1310-73-2 | sodium hydroxide | | | < 1 % |
| | 215-185-5 | 011-002-00-6 | 01-2119457892-27 | |
| | Met. Corr. 1, Skin Corr. 1A; H290 H314 | | | |

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 | | |
| 7775-27-1 | 231-892-1 | disodium peroxodisulphate | 10 - < 15 % |
| | inhalation: LC50 = >= 2,95 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1200 mg/kg | | |
| 1310-73-2 | 215-185-5 | sodium hydroxide | < 1 % |
| | Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | | |

Further Information

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures**General information**

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air.

Call a physician immediately.

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

If swallowed, immediately drink: 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

Causes burns.

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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

In case of fire, dangerous combustion gases or vapors may be released.

5.3. Advice for firefighters

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

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**

May be corrosive to metals.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

To follow: Emergency procedures

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).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). / Take up dust-free and set down dust-free.

Collect in closed and suitable containers for disposal.

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.

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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.

Handle and open container with care.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

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

Provide adequate ventilation.

Use extractor hood (laboratory).

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from: Food and feedingstuffs

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

Provide eye shower and label its location conspicuously

In the immediate working surroundings there must be: Emergency shower installed

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**Requirements for storage rooms and vessels**

Keep container tightly closed.

Corrosive to metals.

Unsuitable container/equipment material: Metal

Hints on joint storage

National regulations

Further information on storage conditions

Store in a dry place.

Store in a well-ventilated place.

7.3. Specific end use(s)

The product is intended for research, analysis and scientific education.

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

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|------------------|-----|-------------------|-----------|---------------|--------|
| 1310-73-2 | Sodium hydroxide | - | 2 | | STEL (15 min) | WEL |

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DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|---------------------------|----------------|----------|--------------------------|
| DNEL type | | Exposure route | Effect | Value |
| 7775-27-1 | disodium peroxodisulphate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 2,06 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 590 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 2,06 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 18,2 mg/kg bw/day |
| Worker DNEL, acute | | dermal | systemic | 400 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | local | 0,102 mg/cm ² |
| Worker DNEL, acute | | dermal | local | 2,248 mg/cm ² |
| Consumer DNEL, long-term | | inhalation | systemic | 1,03 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 295 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 1,03 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 295 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 9,1 mg/kg bw/day |
| Consumer DNEL, acute | | dermal | systemic | 200 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | local | 0,051 mg/cm ² |
| Consumer DNEL, acute | | dermal | local | 1,124 mg/cm ² |
| Consumer DNEL, long-term | | oral | systemic | 9,1 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 30 mg/kg bw/day |
| 1310-73-2 | sodium hydroxide | | | |
| Worker DNEL, long-term | | inhalation | local | 1 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 1 mg/m ³ |

PNEC values

| CAS No | Substance | | | |
|--|---------------------------|--|--|-------------|
| Environmental compartment | | | | Value |
| 7775-27-1 | disodium peroxodisulphate | | | |
| Freshwater | | | | 0,076 mg/l |
| Freshwater (intermittent releases) | | | | 0,763 mg/l |
| Marine water | | | | 0,011 mg/l |
| Freshwater sediment | | | | 0,275 mg/kg |
| Marine sediment | | | | 0,04 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | | | 3,6 mg/l |
| Soil | | | | 0,015 mg/kg |

Additional advice on limit values

Observe in addition any national regulations!

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

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Eye/face protection

goggles
Face protection umbrella

Hand protection

Tested protective gloves must be worn
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.

Skin protection

Wear suitable protective clothing.
When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.
Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

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

Thermal hazards

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

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: | No data available |
| Odour threshold: | No data available |
| Melting point/freezing point: | No data available |
| Boiling point or initial boiling point and boiling range: | No data available |
| Flammability: | No data available |
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Flash point: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| pH-Value: | 12,7 |
| Viscosity / kinematic: | No data available |
| Water solubility: | No data available |
| Dissolution rate: | No data available |
| Partition coefficient n-octanol/water: | No data available |
| Dispersion stability: | No data available |
| Vapour pressure: | No data available |
| Vapour pressure: | No data available |
| Density: | 1,0880 g/cm ³ |
| Relative density: | No data available |
| Bulk density: | No data available |
| Relative vapour density: | No data available |
| Particle characteristics: | No data available |

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

Explosive properties

No data available

Sustained combustibility:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

No data available:

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information

No data available

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

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metal

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

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****Toxicokinetics, metabolism and distribution**

No data available

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Acute toxicity

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|-----------|-------------------------------|---------------|----------------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 7775-27-1 | disodium peroxodisulphate | | | | |
| | oral | LD50 mg/kg | 1200 Rat | Study report (1979) | OECD Guideline 401 |
| | dermal | LD50 mg/kg | > 2000 Rat | Study report (1991) | EPA OPP 81-2 |
| | inhalation (4 h) dust/mist | LC50 mg/l | >= 2,95 Rat | Study report (1989) | EPA OPP 81-3 |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (disodium peroxodisulphate)

May cause an allergic skin reaction. (disodium peroxodisulphate)

Carcinogenic/mutagenic/toxic effects for reproduction

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

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.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards**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.

Other information

No data available

Further information

No data available

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

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

| CAS No | Chemical name | | | | | |
|-----------|---------------------------|----------------|-----------|---------------------------|--|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 7775-27-1 | disodium peroxodisulphate | | | | | |
| | Acute fish toxicity | LC50 76,3 mg/l | 96 h | Oncorhynchus mykiss | Study report (1993) | other: FIFRA Guideline 72-1 of the Pesti |
| | Acute algae toxicity | ErC50 136 mg/l | 72 h | Phaeodactylum tricornutum | Study report (1992) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 120 mg/l | 48 h | Daphnia magna | Study report (1993) | other: FIFRA Guideline 72-2 of the Pesti |
| 1310-73-2 | sodium hydroxide | | | | | |
| | Acute crustacea toxicity | EC50 40,4 mg/l | 48 h | Ceriodaphnia sp. | Ecotoxicology and Environmental Safety,4 | other: acute 48-h immobilization test ac |

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 UK REACH.

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.

Further information

Do not allow to enter into surface water or drains.

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

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

Do not allow to enter into surface water or drains.

Contaminated packaging

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

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3216

14.2. UN proper shipping name:

PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

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14.3. Transport hazard class(es): 5.1**14.4. Packing group:** III

Hazard label: 5.1

Classification code: O1

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 50

Tunnel restriction code: E

Inland waterways transport (ADN)**14.1. UN number or ID number:** UN 3216**14.2. UN proper shipping name:** PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.**14.3. Transport hazard class(es):** 5.1**14.4. Packing group:** III

Hazard label: 5.1

Classification code: O1

Limited quantity: 5 L

Excepted quantity: E1

Marine transport (IMDG)**14.1. UN number or ID number:** UN 3216**14.2. UN proper shipping name:** PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.**14.3. Transport hazard class(es):** 5.1**14.4. Packing group:** III

Hazard label: 5.1

Special Provisions: -

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-Q

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:** UN 3216**14.2. UN proper shipping name:** PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.**14.3. Transport hazard class(es):** 5.1**14.4. Packing group:** III

Hazard label: 5.1

Special Provisions: A803

Limited quantity Passenger: 1 L

Passenger LQ: Y541

Excepted quantity: E1

IATA-packing instructions - Passenger: 551

IATA-max. quantity - Passenger: 2.5 L

IATA-packing instructions - Cargo: 555

IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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 75

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

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

Additional information

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

National regulatory information

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

Ox. Liq. 3: Oxidising liquids, hazard category 3

Ox. Sol. 3: Oxidising solids, hazard category 3

Met. Corr. 1: Corrosive to metals, hazard category 1

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1A: Skin corrosion, sub-category 1A

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

Resp. Sens. 1: Respiratory sensitisation, hazard category 1

Skin Sens. 1: Skin sensitisation, hazard category 1

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

Classification for mixtures and used evaluation method

| Classification | Classification procedure |
|---------------------|--------------------------|
| Ox. Liq. 3; H272 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| Resp. Sens. 1; H334 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)