

**Nitric acid, diluted R reagent Ph.Eur., chapter 4.1.1 (1058402)**

Revision: 18.03.2025

Product code: 20592

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

Nitric acid, diluted R reagent Ph.Eur., chapter 4.1.1 (1058402)

UFI: VX0U-H1VK-D00N-6T0Q

**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**

|                         |                                  |                              |
|-------------------------|----------------------------------|------------------------------|
| Company name:           | AnalytiChem GmbH                 |                              |
|                         | ACD                              |                              |
| Street:                 | Stempelstraße 6                  |                              |
| Place:                  | D-47167 Duisburg                 |                              |
| Telephone:              | 0203/5194-0                      | Telefax: 0203/5194-290       |
| E-mail:                 | info@analytichem.de              |                              |
| Contact person:         | Abteilung Produktsicherheit      | Telephone: 0203/5194-107/117 |
| E-mail:                 | produktsicherheit@analytichem.de |                              |
| Internet:               | www.analytichem.de               |                              |
| Responsible Department: | Abteilung Produktsicherheit      |                              |

**1.4. Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, 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**

This product is a mixture. REACH Registration Number see section 3.

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

Met. Corr. 1; H290  
Acute Tox. 4; H332  
Skin Corr. 1B; H314  
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

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

nitric acid

**Signal word:** Danger**Pictograms:**

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**Hazard statements**

- H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

**Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

**Special labelling of certain mixtures**

- EUH071 Corrosive to the respiratory tract.

**2.3. Other hazards**

No data available

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

Mixtures in aqueous solution

**Relevant ingredients**

| CAS No    | Chemical name                                                                                         |              |                  | Quantity    |
|-----------|-------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
|           | EC No                                                                                                 | Index No     | REACH No         |             |
|           | Classification (Regulation (EC) No 1272/2008)                                                         |              |                  |             |
| 7697-37-2 | nitric acid                                                                                           |              |                  | 10 - < 15 % |
|           | 231-714-2                                                                                             | 007-030-00-3 | 01-2119487297-23 |             |
|           | Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1; H272 H290 H331 H314 H318<br>EUH071 |              |                  |             |

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                                                                                            |               |             |
| 7697-37-2 | 231-714-2                                                                                                                           | nitric acid   | 10 - < 15 % |
|           | inhalation: ATE 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 - 100 Skin Corr. 1B; H314: >= 5 - < 20 |               |             |

**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****General information**

First aider: Pay attention to self-protection!

**After inhalation**

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

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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.

**After ingestion**

Rinse mouth immediately and drink plenty 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.

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

Irritant — skin irritation and eye damage

Causes burns.

Cough

Dyspnoea

Risk of serious damage to eyes.

Vomiting

Methaemoglobinaemia

**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:

Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

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

Do not inhale explosion and combustion gases.

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**

Provide adequate ventilation.

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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**

If handled uncovered, arrangements with local exhaust ventilation have to be used.  
Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff. Keep container tightly closed.  
Use personal protection equipment. Use extractor hood (laboratory).  
Provide adequate ventilation.  
Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

Material, oxygen-rich, Oxidising

**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 or drink.  
The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**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**

- Keep container tightly closed.
- Provide adequate ventilation as well as local exhaust at critical locations.
- Keep in a cool place.

**Hints on joint storage**

- national regulations

**Further information on storage conditions**

- Unsuitable container/equipment material: Metal, Light metal

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

- Laboratory chemicals

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| CAS No    | Substance   | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|-------------|-----|-------------------|---------------------|---------------|--------|
| 7697-37-2 | Nitric acid | 1   | 2.6               |                     | STEL (15 min) |        |

**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. Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

- Face protection shield
- goggles.

**Hand protection**

- Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

- Recommended glove articles: KCL 741 Dermatril® L
- Recommended material: NBR (Nitrile rubber) 0,11mm
- Wearing time with permanent contact: >480min

By short-term hand contact

- Recommended glove articles: KCL 741 Dermatril® L
- Recommended material: NBR (Nitrile rubber) 0,11mm
- Wearing time with occasional contact (splashes): >480min

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](http://www.kcl.de)).

**Skin protection**

- Wear suitable protective clothing.

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**Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**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:                                                    | stinging          |                          |
| 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:                                              |                   | X                        |
| Auto-ignition temperature:                                |                   | No data available        |
| Decomposition temperature:                                |                   | No data available        |
| pH-Value:                                                 |                   | <1                       |
| Viscosity / kinematic:                                    |                   | No data available        |
| Water solubility:                                         |                   | very soluble             |
| Solubility in other solvents                              |                   |                          |
| not determined                                            |                   |                          |
| 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:                                                  |                   | 1,0677 g/cm <sup>3</sup> |
| Relative density:                                         |                   | No data available        |
| Bulk density:                                             |                   | No data available        |
| Relative vapour density:                                  |                   | No data available        |
| Particle characteristics:                                 |                   | No data available        |

**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

Oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solvent separation test:

No data available

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|                      |                   |
|----------------------|-------------------|
| Solvent content:     | 0                 |
| Solid content:       | 0                 |
| Sublimation point:   | No data available |
| Softening point:     | No data available |
| Pour point:          | No data available |
| No data available:   |                   |
| Viscosity / dynamic: | No data available |
| Flow time:           | No data available |

**Further Information**

Corrosive to metals.

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

Corrosive to metals.  
Oxidising agent, strong

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Danger of explosion:

Acetone, Alcohol, Aniline, Substance, organic, Benzene, Aniline, Amines, Hydrocarbons, halogenated, Diethyl ether, Hydrazine, Dioxane, Acetic acid, Acetic anhydride, Ethanol, Fluorine, Formaldehyde, Rubber articles, Hydrocarbons, Copper, Powdered metals, Methanol, Phosphorus trichloride, Hydrogen phosphides, Gasoline, Reducing agent, titanium, Toluene, Hydrogen peroxide, tin, Xylene, Dichloromethane, carbon black, Potassium chlorate, permanganates, e.g. potassium permanganate

Ignition hazard:

Amines, Ammonia (NH<sub>3</sub>), Combustible substance, aldehydes, Hydrogen iodide (HI), White/yellow phosphor, Hydrogen sulphide (H<sub>2</sub>S), Alkali metals, Alkaline earth metal

Violent reaction with:

Nitriles, antimony, arsenic, boron, Alkali (lye), sodium hypochlorite, Formic acid, sulphuric acid, sulphuric acid, sulphuric acid, selenium

**10.4. Conditions to avoid**

Heat

**10.5. Incompatible materials**

Cellulose, Metal

Keep away from: Metal.

Keep away from combustible material.

The product develops hydrogen in an aqueous solution in contact with metals. / Nitrogen oxides (NO<sub>x</sub>)**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 Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

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**Acute toxicity**

Harmful if inhaled.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Pulmonary oedema

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Inhalation effect: Damage to the respiratory tract.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) 4,000 mg/l

| CAS No    | Chemical name     |               |         |        |        |
|-----------|-------------------|---------------|---------|--------|--------|
|           | Exposure route    | Dose          | Species | Source | Method |
| 7697-37-2 | nitric acid       |               |         |        |        |
|           | inhalation vapour | ATE 2,65 mg/l |         |        |        |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage.

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

Corrosive to the respiratory tract.

Risk of serious damage to eyes.

**Sensitising effects**

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

**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**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

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

There are no data available on the mixture itself.

**Other information**

There are no data available on the mixture itself.

**Further information**

Irritant — skin irritation and eye damage

Causes burns.

Cough



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Dyspnoea  
 Risk of serious damage to eyes.  
 Vomiting  
 Methaemoglobinaemia

**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                                   |
| 7697-37-2 | nitric acid             |                      |           |                                                    |                                         |                                          |
|           | Acute fish toxicity     | LC50 1559 mg/l       | 96 h      | Topeka shiner                                      | Environmental Toxicology and Chemistry, | other: ASTM E729-26                      |
|           | Fish toxicity           | NOEC 268 mg/l        | 30 d      | juvenile Topeka shiner and with juvenile Fathead m | Study report (2009)                     | Growth tests estimated the test chemical |
|           | Algae toxicity          | NOEC > 419 mg/l      | 10 d      | several benthic diatoms; see results               | Marine Biology 43:307-315 (1977)        | Ten cultures of benthic diatoms were iso |
|           | Acute bacteria toxicity | EC50 > 1000 mg/l ( ) | 3 h       | Activated sludge                                   | Study report (2008)                     | OECD Guideline 209                       |

**12.2. Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**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 REACH, annex XIII.

**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 empty into drains.

**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.  
 Do not mix with other wastes.

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**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.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

|                                          |             |
|------------------------------------------|-------------|
| <b>14.1. UN number or ID number:</b>     | UN 2031     |
| <b>14.2. UN proper shipping name:</b>    | NITRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8           |
| <b>14.4. Packing group:</b>              | II          |
| Hazard label:                            | 8           |
| Classification code:                     | C1          |
| Limited quantity:                        | 1 L         |
| Excepted quantity:                       | E2          |
| Transport category:                      | 2           |
| Hazard No:                               | 80          |
| Tunnel restriction code:                 | E           |

**Inland waterways transport (ADN)**

|                                          |             |
|------------------------------------------|-------------|
| <b>14.1. UN number or ID number:</b>     | UN 2031     |
| <b>14.2. UN proper shipping name:</b>    | NITRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8           |
| <b>14.4. Packing group:</b>              | II          |
| Hazard label:                            | 8           |
| Classification code:                     | C1          |
| Limited quantity:                        | 1 L         |
| Excepted quantity:                       | E2          |

**Marine transport (IMDG)**

|                                          |             |
|------------------------------------------|-------------|
| <b>14.1. UN number or ID number:</b>     | UN 2031     |
| <b>14.2. UN proper shipping name:</b>    | NITRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8           |
| <b>14.4. Packing group:</b>              | II          |
| Hazard label:                            | 8           |
| Special Provisions:                      | -           |
| Limited quantity:                        | 1 L         |
| Excepted quantity:                       | E2          |
| EmS:                                     | F-A, S-B    |

**Air transport (ICAO-TI/IATA-DGR)**

|                                          |             |
|------------------------------------------|-------------|
| <b>14.1. UN number or ID number:</b>     | UN 2031     |
| <b>14.2. UN proper shipping name:</b>    | NITRIC ACID |
| <b>14.3. Transport hazard class(es):</b> | 8           |
| <b>14.4. Packing group:</b>              | II          |
| Hazard label:                            | 8           |
| Special Provisions:                      | A212        |
| Limited quantity Passenger:              | Forbidden   |
| Passenger LQ:                            | Forbidden   |
| Excepted quantity:                       | E0          |
| IATA-packing instructions - Passenger:   | Forbidden   |
| IATA-max. quantity - Passenger:          | Forbidden   |
| IATA-packing instructions - Cargo:       | 855         |
| IATA-max. quantity - Cargo:              | 30 L        |

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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Oxidising substances. 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 75

Information according to Directive

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

2012/18/EU (SEVESO III):

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

**National regulatory information**

Employment restrictions:

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

Water hazard class (D):

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): 9,12.

**Abbreviations and acronyms**

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

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

Acute Tox. 3: Acute toxicity, hazard category 3

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

Eye Dam. 1: Serious eye damage, hazard category 1

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%

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Met. Corr. 1; H290  | On basis of test data    |
| Acute Tox. 4; H332  | Calculation method       |
| Skin Corr. 1B; H314 | Calculation method       |
| Eye Dam. 1; H318    | Calculation method       |

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

|        |                                          |
|--------|------------------------------------------|
| H272   | May intensify fire; oxidiser.            |
| H290   | May be corrosive to metals.              |
| H314   | Causes severe skin burns and eye damage. |
| H318   | Causes serious eye damage.               |
| H331   | Toxic if inhaled.                        |
| H332   | Harmful if inhaled.                      |
| EUH071 | Corrosive to the respiratory tract.      |

**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.

Provide appropriate information, instructions and training to users

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