Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 %  $HNO_3$ 

article number: **1P7E** Version: **1.0 en** 

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

#### 1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

**Multi-Element** ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

1P7E

not relevant (mixture)

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use Laboratory chemical

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

#### 1.4 Emergency telephone number

| Name   | Street    | Postal<br>code/city  | Telephone    | Website |
|--|-----------|----------------------|--------------|---------|
| National Poisons Information<br>Service<br>City Hospital | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class                             | Cat-<br>egory | Hazard class and category | Hazard<br>statement |
|---------|--|---------------|---------------------------|---------------------|
| 2.16    | Substance or mixture corrosive to metals | 1             | Met. Corr. 1              | H290                |
| 3.2     | Skin corrosion/irritation                | 1B            | Skin Corr. 1B             | H314                |
| 3.3     | Serious eye damage/eye irritation        | 1             | Eye Dam. 1                | H318                |



date of compilation: 2022-04-21

Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

article number: 1P7E

| Suppleme | ntal hazard information            |
|----------|------------------------------------|
| Code     | Supplemental hazard information    |
| EUH071   | corrosive to the respiratory tract |

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

| Signal word  | Danger   |                             |
|--|--|-----------------------------|
| Pictograms   |  |                             |
| GHS05  |  |                             |
| Hazard stateme   | nts  |                             |
| H290<br>H314   | May be corrosive to met<br>Causes severe skin burn |                             |
| Precautionary st   | atements   |                             |
| Precautionary st   | atements - prevention                              |                             |
| P280   | Wear protective gloves/pi                          | rotective clothing/eye prot |
| Supplemental ha  | azard information                                  |                             |
| EUH071   | Corrosive to the respirato                         | ory tract.                  |
| Hazardous ingre  | dients for labelling:                              | Nitric acid% [C ≤ 7         |
| Labelling of package<br>Signal word: Danger<br>Symbol(s) | es where the contents do not exce                  | ed 125 ml                   |



| H314                | Causes severe skin burns and eye damage.                                   |
|---------------------|--|
| P280                | Wear protective gloves/protective clothing/eye protection/face protection. |
| EUH071<br>contains: | Corrosive to the respiratory tract.<br>Nitric acid% [C ≤ 70 %]             |



tection/face protection

70 %]

according to Regulation (EC) No. 1907/2006 (REACH)

#### Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

article number: 1P7E

#### 2.3 **Other hazards**

#### **Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 **Substances**

not relevant (mixture)

#### 3.2 **Mixtures**

#### **Description of the mixture**

| Name of sub-<br>stance     | Identifier   | Wt%   | Classification acc. to<br>GHS   | Pictograms | Notes                                       |
|----------------------------|--|-------|---|------------|---|
| Nitric acid% [C ≤ 70<br>%] | CAS No<br>7697-37-2<br>EC No<br>231-714-2<br>Index No<br>007-030-00-3  | 5     | Ox. Liq. 3 / H272<br>Met. Corr. 1 / H290<br>Acute Tox. 3 / H331<br>Skin Corr. 1A / H314<br>Eye Dam. 1 / H318<br>EUH071                    |            | B(a)<br>GHS-HC<br>IOELV                     |
| copper dinitrate           | CAS No<br>3251-23-8<br>EC No<br>221-838-5                              | 0,295 | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410                  |            |   |
| Lead(II) nitrate           | CAS No<br>10099-74-8<br>EC No<br>233-245-9<br>Index No<br>082-001-00-6 | 0,16  | Acute Tox. 4 / H302<br>Acute Tox. 4 / H332<br>Repr. 1A / H360Df<br>STOT RE 1 / H372<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410 |            | 1(a)<br>A(a)<br>GHS-HC<br>IARC: 2A<br>IOELV |

#### Notes

The concentration stated is the percentage by weight of the metallic element calculated with reference to the total 1(a):

A(a): The name of substance is a general description. It is required that the correct name is stated on the label
 B(a): The classification refers to an aqueous solution
 GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/

2008/EC, Annex VI)

IARC: IARC group 2A: probably carcinogenic to humans (International Agency for Research on Cancer)

2A: IOELV: Substance with a community indicative occupational exposure limit value

| Name of sub-<br>stance     | Identifier  | Specific Conc. Limits  | <b>M-Factors</b> | ATE                                   | Exposure<br>route       |
|----------------------------|---|--|------------------|---------------------------------------|-------------------------|
| Nitric acid% [C<br>≤ 70 %] | CAS No<br>7697-37-2<br>EC No<br>231-714-2<br>Index No<br>007-030-00-3 | Ox. Liq. 3; H272: C ≥ 65 %<br>Skin Corr. 1A; H314: C ≥ 20 %<br>Skin Corr. 1B; H314: 5 % ≤ C < 20 % | -                | 2,65 <sup>mg</sup> / <sub>l</sub> /4h | inhalation: va-<br>pour |
| copper dinitrate           | CAS No<br>3251-23-8<br>EC No<br>221-838-5                             | -  | -                | 794 <sup>mg</sup> / <sub>kg</sub>     | oral                    |



according to Regulation (EC) No. 1907/2006 (REACH)



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: **1P7E** 

| Name of sub-<br>stance | Identifier   | Specific Conc. Limits   | M-Factors                  | ATE   | Exposure<br>route                 |
|------------------------|--|---|----------------------------|---|-----------------------------------|
| Lead(II) nitrate       | CAS No<br>10099-74-8<br>EC No<br>233-245-9<br>Index No<br>082-001-00-6 | Repr. 1A; H360D: C ≥ 0,3 %<br>Repr. 2; H361f: C ≥ 2,5 %<br>STOT RE 2; H373: C ≥ 0,5 % | M-factor<br>(acute) = 10.0 | 500 <sup>mg</sup> / <sub>kg</sub><br>1,5 <sup>mg</sup> / <sub>l</sub> /4h | oral<br>inhalation: dust/<br>mist |

### Substance of Very High Concern (SVHC)

| Name of substance | Name acc. to invent-<br>ory | CAS No     | EC No     | Listed in      | Remarks    |
|-------------------|-----------------------------|------------|-----------|----------------|------------|
| Lead(II) nitrate  | lead dinitrate              | 10099-74-8 | 233-245-9 | Candidate list | Repr. A57c |

Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV list

Repr. A57c Toxic for reproduction (article 57c)

For full text of abbreviations: see SECTION 16

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### Following eye contact

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. Protect uninjured eye.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

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

none

according to Regulation (EC) No. 1907/2006 (REACH)



## Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $HNO_3$

article number: 1P7E

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide ( $CO_2$ )

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

### **SECTION 6: Accidental release measures**

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

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

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

article number: 1P7E

### **SECTION 7: Handling and storage**

#### **Precautions for safe handling** 7.1

Handle and open container with care. Clear contaminated areas thoroughly.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

#### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

#### National limit values

#### **Occupational exposure limit values (Workplace Exposure Limits)**

| Cou<br>ntr<br>y | Name of agent  | CAS No        | Identi-<br>fier | TW<br>A<br>[pp<br>m] | TWA<br>[mg/<br>m³] | STE<br>L<br>[pp<br>m] | STEL<br>[mg/<br>m³] | Ceil<br>ing-<br>C<br>[pp<br>m] | Ceil-<br>ing-C<br>[mg/<br>m³] | Nota-<br>tion | Source         |
|-----------------|----------------|---------------|-----------------|----------------------|--------------------|-----------------------|---------------------|--------------------------------|-------------------------------|---------------|----------------|
| EU              | lead compounds |               | IOELV           |                      | 0,15               |                       |                     |                                |                               |               | 98/24/EC       |
| EU              | nitric acid    | 7697-37-<br>2 | IOELV           |                      |                    | 1                     | 2,6                 |                                |                               |               | 2006/15/<br>EC |
| GB              | lead compounds |               | OEL-NIR         |                      | 0,15               |                       |                     |                                |                               | Pb            | CLWR-<br>NIR   |
| GB              | lead compounds |               | OEL             |                      | 0,15               |                       |                     |                                |                               | Pb            | CLWR           |
| GB              | nitric acid    | 7697-37-<br>2 | WEL             |                      |                    | 1                     | 2,6                 |                                |                               |               | EH40/<br>2005  |

Notation

TWA

Ceiling value is a limit value above which exposure should not occur Ceiling-C

Calculated as Pb (lead) Pb STEL

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)



according to Regulation (EC) No. 1907/2006 (REACH)



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: **1P7E** 

| Biological limit values |                |        |           |   |                 |          |             |              |
|-------------------------|----------------|--------|-----------|---|-----------------|----------|-------------|--------------|
| Coun<br>try             | Name of agent  | CAS No | Parameter | Nota<br>tion  | Identi-<br>fier | Value    | Material    | Source       |
| GB                      | lead compounds |        | lead      | Pb-<br>bio-2,<br>Pb-<br>med-<br>2,<br>wmn<<br>45y         | AL_NIR          | 250 μg/l | whole blood | CLWR-<br>NIR |
| GB                      | lead compounds |        | lead      | Pb-<br>bio-2,<br>Pb-<br>med-<br>2,<br>wmn<<br>45y         | AL              | 250 µg/l | whole blood | CLWR         |
| GB                      | lead compounds |        | lead      | Pb-<br>bio-2,<br>Pb-<br>med-<br>3,<br>wmn><br>45y,<br>men | AL_NIR          | 400 μg/l | whole blood | CLWR-<br>NIR |
| GB                      | lead compounds |        | lead      | Pb-<br>bio-2,<br>Pb-<br>med-<br>3,<br>wmn><br>45y,<br>men | AL              | 400 μg/l | whole blood | CLWR         |
| GB                      | lead compounds |        | lead      | Pb-<br>bio-2,<br>Pb-<br>med-<br>4,<br>young               | AL_NIR          | 500 μg/l | whole blood | CLWR-<br>NIR |
| GB                      | lead compounds |        | lead      | Pb-<br>bio-2,<br>Pb-<br>med-<br>4,<br>young               | AL              | 500 µg/l | whole blood | CLWR         |

Notation

| NULALIUN                   |   |
|----------------------------|---|
| Pb-bio-2                   | Biological monitoring: (a) in respect of an employee other than a young person or a woman of reproductive capa-<br>city, at least every 6 months, but where the results of the measurements for individuals or for groups of workers<br>have shown on the previous two consecutive occasions on which monitoring was carried out a lead in air expos-<br>ure greater than 0.075 mg/m <sup>3</sup> but less than 0.100 mg/m <sup>3</sup> and where the blood-lead concentration of any individu-<br>al employee is less than 30 µg/dl, the frequency of monitoring may be reduced to once a year; or (b) in respect of<br>any young person or a woman of reproductive capacity, at such intervals as the relevant doctor shall specify, be-<br>ing not greater than 3 months |
| Pb-med-2                   | Medical surveillance: in respect of a woman of reproductive capacity, 20 g/dl (blood-lead concentration) or 20 g<br>Pb/g creatinine (urinary lead concentration)  |
| Pb-med-3                   | Medical surveillance: in respect of any other employee, 35 μg/dl (blood-lead concentration) or 40 μg Pb/g creatin-<br>ine (urinary lead concentration)<br>suspension level: in respect of a woman of reproductive capacity, 60 μg/dl (blood-lead concentration) or 110 μg   |
| Pb-med-4                   | by greatinine (urinary lead concentration)<br>Medical surveillance: in respect of any other employee, 35 μg/dl (blood-lead concentration) or 40 μg Pb/g creatin-<br>ine (urinary lead concentration)<br>suspension level: in respect of a young person, 50 μg/dl (blood-lead concentration) or 110 μg Pb/g creatinine (ur-<br>inary lead concentration)   |
| wmn<45y<br>wmn>45y,<br>men | Women of reproductive capacity (women < 45 years)<br>Women of non-reproductive capacity, men (women > 45 years)   |
| young                      | Adolescents (young person < 18 years)   |

according to Regulation (EC) No. 1907/2006 (REACH)



article number: 1P7E

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### **Eye/face protection**



Use safety goggle with side protection. Wear face protection.

#### **Skin protection**



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation.

#### Environmental exposure controls

Keep away from drains, surface and ground water.



according to Regulation (EC) No. 1907/2006 (REACH)

# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: 1P7E

#### SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties Physical state liquid Colour colourless Odour characteristic ~0 °C at 1.013 Pa Melting point/freezing point Boiling point or initial boiling point and boiling ~100 °C at 1.013 hPa range Flammability non-combustible Lower and upper explosion limit not determined Flash point not determined not determined Auto-ignition temperature Decomposition temperature not relevant <2 pH (value) not determined Kinematic viscosity Solubility(ies) not determined Water solubility Partition coefficient Partition coefficient n-octanol/water (log value): not relevant (inorganic) 23 hPa at 20 °C Vapour pressure Density and/or relative density Density ~1 <sup>g</sup>/<sub>cm<sup>3</sup></sub> at 20 °C Relative vapour density information on this property is not available Particle characteristics not relevant (liquid) Other safety parameters Oxidising properties none 9.2 Other information Information with regard to physical hazard classes: Corrosive to metals category 1: corrosive to metals There is no additional information. Other safety characteristics:



according to Regulation (EC) No. 1907/2006 (REACH)



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: 1P7E

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Substance or mixture corrosive to metals.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

**Violent reaction with:** Ammonia (NH3), Bases, Metals, Reducing agents, Strong alkali, Organic solvents

#### 10.4 Conditions to avoid

Keep away from heat.

#### **10.5** Incompatible materials

different metals (due to the release of hydrogen in an acid/alkaline medium)

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture |            |                       |                                       |
|--|------------|-----------------------|---------------------------------------|
| Name of substance  | CAS No     | Exposure route        | ATE                                   |
| Nitric acid% [C ≤ 70 %]                                    | 7697-37-2  | inhalation: vapour    | 2,65 <sup>mg</sup> / <sub>l</sub> /4h |
| copper dinitrate   | 3251-23-8  | oral                  | 794 <sup>mg</sup> / <sub>kg</sub>     |
| Lead(II) nitrate   | 10099-74-8 | oral                  | 500 <sup>mg</sup> / <sub>kg</sub>     |
| Lead(II) nitrate   | 10099-74-8 | inhalation: dust/mist | 1,5 <sup>mg</sup> / <sub>l</sub> /4h  |

| cute toxicity of components of the mixture |           |                         |          |  |         |
|--|-----------|-------------------------|----------|--|---------|
| Name of substance                          | CAS No    | Exposure<br>route       | Endpoint | Value                                  | Species |
| Nitric acid% [C ≤ 70 %]                    | 7697-37-2 | inhalation: va-<br>pour | LC50     | >2,65 <sup>mg</sup> / <sub>l</sub> /4h | rat     |
| copper dinitrate                           | 3251-23-8 | oral                    | LD50     | 794 <sup>mg</sup> / <sub>kg</sub>      | rat     |



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: 1P7E

| Acute toxicity of components of the mixture |            |                   |          |                                      |         |
|---|------------|-------------------|----------|--------------------------------------|---------|
| Name of substance                           | CAS No     | Exposure<br>route | Endpoint | Value                                | Species |
| Lead(II) nitrate                            | 10099-74-8 | oral              | LD50     | >2.000 <sup>mg</sup> / <sub>kg</sub> | rat     |
| Lead(II) nitrate                            | 10099-74-8 | dermal            | LD50     | >2.000 <sup>mg</sup> / <sub>kg</sub> | rat     |

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

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

#### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### • If inhaled

corrosive to the respiratory tract, cough, Dyspnoea

#### • If on skin

causes severe burns, causes poorly healing wounds

#### Other information

This information is based upon the present state of our knowledge.

#### **11.2 Endocrine disrupting properties**

None of the ingredients are listed.

according to Regulation (EC) No. 1907/2006 (REACH)



article number: 1P7E

#### 11.3 Information on other hazards

There is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture |            |          |                                   |         |                  |
|---|------------|----------|-----------------------------------|---------|------------------|
| Name of sub-<br>stance                                | CAS No     | Endpoint | Value                             | Species | Exposure<br>time |
| Lead(II) nitrate                                      | 10099-74-8 | LC50     | 107 <sup>µg</sup> / <sub>l</sub>  | fish    | 96 h             |
| Lead(II) nitrate                                      | 10099-74-8 | ErC50    | 35,9 <sup>µg</sup> / <sub>l</sub> | algae   | 48 h             |

#### **Biodegradation**

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

#### 12.2 Process of degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6 Endocrine disrupting properties** None of the ingredients are listed.
- 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$



article number: 1P7E

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

| 14.1 |                              |  |
|------|------------------------------|--|
|      | ADRRID                       | UN 2031  |
|      | IMDG-Code                    | UN 2031  |
|      | ICAO-TI                      | UN 2031  |
| 14.2 | UN proper shipping name      |  |
|      | ADRRID                       | NITRIC ACID  |
|      | IMDG-Code                    | NITRIC ACID  |
|      | ICAO-TI                      | Nitric acid  |
| 14.3 | Transport hazard class(es)   |  |
|      | ADRRID                       | 8  |
|      | IMDG-Code                    | 8  |
|      | ICAO-TI                      | 8  |
| 14.4 | Packing group                |  |
|      | ADRRID                       | II   |
|      | IMDG-Code                    | II   |
|      | ICAO-TI                      | II   |
| 14.5 | Environmental hazards        | non-environmentally hazardous acc. to the dan-<br>gerous goods regulations |
| 116  | Special procautions for user |  |

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

| Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additiona<br>information |                                 |  |  |
|---|---------------------------------|--|--|
| Proper shipping name  | NITRIC ACID                     |  |  |
| Particulars in the transport document   | UN2031, NITRIC ACID, 8, II, (E) |  |  |
| Classification code   | C1                              |  |  |

8

Danger label(s)

according to Regulation (EC) No. 1907/2006 (REACH)



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: **1P7E** 

| Excepted quantities (EQ)                                       | E2   |
|--|--|
| Limited quantities (LQ)  | 1 L  |
| Transport category (TC)  | 2  |
| Tunnel restriction code (TRC)                                  | E  |
| Hazard identification No                                       | 80   |
| Emergency Action Code  | 2R   |
| Regulations concerning the International Carria<br>information | age of Dangerous Goods by Rail (RID)Additional |
| Classification code  | 8  |
| Danger label(s)  | 8  |
|  |  |
| Excepted quantities (EQ)                                       | E2   |
| Limited quantities (LQ)  | 1 L  |
| Transport category (TC)  | 2  |
| Hazard identification No                                       | 80   |
| International Maritime Dangerous Goods Code                    | (IMDG) - Additional information                |
| Proper shipping name   | NITRIC ACID                                    |
| Particulars in the shipper's declaration                       | UN2031, NITRIC ACID, 8, II                     |
| Marine pollutant   | -  |
| Danger label(s)  | 8  |
|  |  |
| Excepted quantities (EQ)                                       | E2   |
| Limited quantities (LQ)  | 1 L  |
| EmS  | F-A, S-B                                       |
| Stowage category   | D  |
| Segregation group  | 1 - Acids                                      |
| International Civil Aviation Organization (ICAO                | IATA/DGR) - Additional information             |
| Proper shipping name   | Nitric acid                                    |
| Particulars in the shipper's declaration                       | UN2031, Nitric acid, 8, II                     |
| Danger label(s)  | 8  |
|  |  |

according to Regulation (EC) No. 1907/2006 (REACH)

#### Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

article number: 1P7E

| Excepted quantities (EQ) | E2    |
|--------------------------|-------|
| Limited quantities (LQ)  | 0,5 L |

## SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 Relevant provisions of the European Union (EU)

## **Restrictions according to REACH, Annex XVII**

| angerous substances with restrictions (REACH, Annex XVII) |  |        |             |    |
|---|--|--------|-------------|----|
| Name of substance   | Name acc. to inventory   | CAS No | Restriction | No |
| Multi-Element   | this product meets the criteria for<br>classification in accordance with Reg-<br>ulation No 1272/2008/EC |        | R3          | 3  |
| Lead(II) nitrate  | toxic for reproduction   |        | R28-30      | 30 |
| Lead(II) nitrate  | substances in tattoo inks and perman-<br>ent make-up   |        | R75         | 75 |
| Lead(II) nitrate  | lead compounds   |        | R63         | 63 |
| Lead(II) nitrate  | lead compounds   |        | R72         | 72 |
| Nitric acid% [C ≤ 70 %]                                   | substances in tattoo inks and perman-<br>ent make-up   |        | R75         | 75 |

#### Legend

R28-30 1. Shall not be placed on the market, or used,

- as substances

- as constituents of other substances, or, - in mixtures,

for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:

- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,

- the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and

labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'.

2. By way of derogation, paragraph 1 shall not apply to:

(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC;

(c) the following fuels and oil products:
 - motor fuels which are covered by Directive 98/70/EC,

- mineral oil products intended for use as fuel in mobile or fixed combustion plants,

fuels sold in closed systems (e.g. liquid gas bottles);
(d) artists' paints covered by Directive 1999/45/EC;
(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date;
(f) devices covered by Regulation (EU) 2017/745.





#### article number: 1P7E

#### Legend

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in orna-

mental lamps and ashtrays,
tricks and jokes,
games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
Articles not complying with paragraph 1 shall not be placed on the market.
Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they

a can be used as fuel in decorative oil lamps for supply to the general public, and
present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black on a containers not exceeding 1 litre by 1 December 2010;

opaque containers not exceeding 1 litre by 1 December 2010.';





#### Multi-HNO<sub>3</sub>

#### article

| <ul> <li>temperature of at least 500 °C.</li> <li>By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles produced before 10 December 1961.</li> <li>By 9 October 2013, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientifi formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraphs 1 and, if appropriate, modify this entry accordingly.</li> <li>T. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and th articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>That limit shall not apply to: eated articles are creases of this paragraph. It is considered that an article or accessible part of an article may creassible part of an article may be placed if mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>By way of derogation, paragraph 7 shall not apply to:</li> <li>(a) jewellery articles covered by paragraph 1.</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (TEE) No 2658/RP Juless they have been treated with lead or its compounds or mixtures containing these substa (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral metted a temperature of at least 500 °C;</li> <li>(b) consynthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EC) No 2658/RP Jules Stope 90°C;</li> <li>(c) no as of rick and parts of this paragraphs 1</li></ul>   |                  |  |
|---|------------------|--|
| <ul> <li>Re3</li> <li>1. Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead pressed as metal) in such a part is equal to or greeter than 0.05 % by weight.</li> <li>(i) previde the individual previdence of the argright 1:</li> <li>(ii) previde prevides and cuttings.</li> <li>(ii) previde prevides and wrist-wear;</li> <li>(ii) broches and cuttinks.</li> <li>(iii) any individual part shee.</li> <li>(ii) any individual part shee.</li> <li>(iii) interal components of wach timepleces inaccesible to consumers;</li> <li>(iii) interal components of wach timepleces inaccesible to consumers;</li> <li>(iii) consumers;</li> <li>(iii) ensume sheet the sheet the prevised with lead or its compounds or mixtures containing these subst.</li> <li>(ii) ensumes, defined a virtifable instrucer sculing from the fusion, virtification or sintering of minerals meted temperature of at least 500°C.</li> <li>(iii) by or other part parts, modify this entry accordingly.</li> <li>(i) by 0 concer 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientific for the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>(i) by plant and the paragraph 1 is considered that the rate of lead release from soch an article or availability of secosible conditions of use of the article.</li> <li>(i) or other barragraph 1 and 1 appropriate, modify this entry accordingly.</li> <li>(i) by cother paragraph 1</li></ul>   | number: <b>1</b> | P7E  |
| <ul> <li>pressed as metal) in such a part is equal to or greater than 0,05 % by weight.</li> <li>2. For the purposes of paragraph 1:</li> <li>(1) excellence include investigation of the pressure of paragraph 1:</li> <li>(2) excellence include investigation of the pressure of the pressu</li></ul>  |                  |  |
| <ul> <li>2. For the purposes of paragraph 1:</li> <li>(i) evellery articles shall include jewellery and imitation jewellery articles and hair accessories, including:</li> <li>(ii) braceles, necklas and utilinks;</li> <li>(iii) any individual part shall include the materials from which the jewellery is made, as well as the individual compensor of the jewellery articles.</li> <li>3. Paragraph 1 shall also apply provide that any part swhen placed on the market or used for jewellery-making.</li> <li>3. Paragraph 1 shall also apply provide that any part of the place on the market or used for jewellery-making.</li> <li>3. Paragraph 1 shall also apply provide that any paragraph 1 shall also apply provide the lead or its compounds or mixtures containing these substrated paragraph 1 shall not apply to jewellery articles placed on the market for the 90493/EEC (14);</li> <li>(b) internal components of watch timepieces inaccessible to consumers;</li> <li>(c) non-synthetic or reconstructed precious and semiprecious stonses (CN code 7103, as established by Regulator TEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substrates and the individual paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles produced before 10 December 1961.</li> <li>(b) yo Ottober 2013 and jewellery articles produced before 10 December 1961.</li> <li>(c) any of derogation paragraph 1 shall not apply to jewellery and the general public, if the concentration of lead from the articles are accessible parts thereof on used in articles science to the general public, if the concentration of lead from the articles are accessible parts thereof on a syntherm of the articles are accessible parts thereof on any, during normal or reasonably foreseable conditions of use of the placed in mouth by children.</li> <li>(f) draft and apply where it can be demonstrated that the rate of lead release from such an article or any of a decastice any</li></ul>  | R63 1.5          | hall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (ex-<br>ssed as metal) in such a part is equal to or greater than 0,05 % by weight.                                       |
| <ul> <li>(a) bracelets, necklaces and migs;</li> <li>(b) pierong jewellery;</li> <li>(c) wrist watches and wrist-wear;</li> <li>(c) wrist watch wrist-wear;</li> <li>(c) a) crystal plass as defined in Annex (Lcategories 1, 2, 3 and 4) to Council Directive 69/493/EEC (14);</li> <li>(c) internal components of watch timepieces inaccessible to consumers;</li> <li>(c) annets, defined as vitriliable mixtures resulting from the fusion, vitrification or sintering of minerals metted temperature of at least 500°C.</li> <li>(c) A2658/87), unless they have been treated with lead or its compounds or mixtures containing these subst.</li> <li>(d) enamels, defined as vitriliable mixtures resulting from the fusion, vitrification or sintering of minerals metted temperature of at least 500°C.</li> <li>(c) Sy 0 october 2013 and (weallowed and the sinter second and the lead or its compounds or mixtures containing these subst.</li> <li>(d) enamels, defined as vitriliable mixtures resulting from the fusion of lead from the articles referred to in para graph 1 shall not apply to jewellery anticles subst.</li> <li>(d) enamels, defined as vitriliable mixtures resulting from the fusion of lead from the articles referred in an anticles subst.</li> <li>(e) by 0 october 2013 nd those articles or accessible para thereosi equal to grapher than 0.05 % by weight, and th articles or accessible para thereosi may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>(f) by children if it is smaller than 5 cm in one dimension or has a detachable or protruction.</li> <li>(f) previntery and the sameler than 5 cm in one dimens</li></ul>  | 2. F             | or the purposes of paragraph 1:  |
| <ul> <li>(d) brooches and cufflinks;</li> <li>(ii) any individual part shall include the materials from which the jewellery is made, as well as the individual compares of the jewellery articles.</li> <li>(d) export of the jewellery articles.</li> <li>(e) export of the jewellery articles.</li> <li>(e) export of the jewellery articles.</li> <li>(f) way of derogation, paragraph 1 shall not apply to:</li> <li>(f) interal components of watch timepices inaccessible to consumers;</li> <li>(f) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulator (EEC) No 2658/87), unless they have been tracted with lead or its compounds or mixtures containing these substit (d) enamels, defined as witrifiable mixtures resulting from the fusion, vitrification or sinteriag of minerals melted to 9 way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles practavaluate paragraphs 1 to 5 of this entry in the light of new scientific formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead presseed as metal) in those articles or accessible parts thereof lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles applied to the general public, if the concentration of lead presseed as metal) in those articles or accessible part or an article aray sy accessible part of an article aray sy accessible part of an article aray sy accessible to accessible part or an article aray sy accessible conditions of use, per hour (equivalent to 0 up/g/m), and, for coated articles, that the coating is sufficient to accessible part of an article marke set.</li> <li>8. By wa</li></ul>  | (a) k            | pracelets, necklaces and rings;  |
| <ul> <li>(d) brooches and cufflinks;</li> <li>(ii) any individual part shall include the materials from which the jewellery is made, as well as the individual compares of the jewellery articles.</li> <li>(d) export of the jewellery articles.</li> <li>(e) export of the jewellery articles.</li> <li>(e) export of the jewellery articles.</li> <li>(f) way of derogation, paragraph 1 shall not apply to:</li> <li>(f) interal components of watch timepices inaccessible to consumers;</li> <li>(f) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulator (EEC) No 2658/87), unless they have been tracted with lead or its compounds or mixtures containing these substit (d) enamels, defined as witrifiable mixtures resulting from the fusion, vitrification or sinteriag of minerals melted to 9 way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles practavaluate paragraphs 1 to 5 of this entry in the light of new scientific formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead presseed as metal) in those articles or accessible parts thereof lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles applied to the general public, if the concentration of lead presseed as metal) in those articles or accessible part or an article aray sy accessible part of an article aray sy accessible part of an article aray sy accessible to accessible part or an article aray sy accessible conditions of use, per hour (equivalent to 0 up/g/m), and, for coated articles, that the coating is sufficient to accessible part of an article marke set.</li> <li>8. By wa</li></ul>  | (b) (            | piercing jewellery;<br>vriet watches and wrist-wear:   |
| <ul> <li>ents of the jewellery articles.</li> <li>Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making.</li> <li>By way of derogation, paragraph 1 shall not apply to:</li> <li>(a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (14);</li> <li>(b) more not preconstructed interious and semiprecious stones (CN code 7103, as exabilished by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these subsit.</li> <li>(c) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted temperature of at least 500 °C.</li> <li>S. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewelley articles produced before 10 December 1961.</li> <li>6. By 9 October 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientifi formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 shall not apply to alternative and the migration of lead from the articles referred to in paragraph 1 shall in those articles or accessible parts thereof is equal to or greater than 0.05 % by weipht, and th articles or accessible parts thereof and the rate of lead release from such an article or any s accessible part of an article, where coated on uncoated, does not exceed 0.05 gly/m2 per hour (quivalent to 0 pug/gh), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceed does 1.8 way of derogation, paragraph 1 shall not apply to:</li> <li>(a) devalues article superagraph 1 shall not apply to:</li> <li>(b) prostal glass as defined in Anney 1 shall not apply to:</li> <li>(c) and teast two years of normal previous and semi-precious stones (CN code 7103 as established by Regulation fEC(N) ob 58/870 unce as of contand appl</li></ul>  | (d)              | prooches and cufflinks:  |
| <ol> <li>Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making.</li> <li>By way of derogation, paragraph 1 shall not apply to:</li> <li>(a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (14);</li> <li>(b) internal components of watch immejaces inaccessible to consumers;</li> <li>(c) (c) (c) (c) (c) (c) (c) (c) (c) (c)</li></ol>  | (ii) 'a          | any individual part' shall include the materials from which the jewellery is made, as well as the individual compon-<br>s of the jewellery articles  |
| <ul> <li>(a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EC (14);</li> <li>(b) internal components of watch timepices inaccessible to consumers;</li> <li>(c) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulation (EG) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substat (d) enamels, defined as within able mixtures resulting from the fusion, vitrification or sintering of minerals melted 5. By way of derogation, paragraph 1 shall not apply to jewelley articles placed on the market for the first time b 9 October 2013 and jewellery articles produced before 10 December 1961.</li> <li>(c) By 9 October 2013, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientif formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry according);</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use to be placed in mouth by children. Jong where it can be demonstrated that the rate of lead release from such an article or any stacessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm/2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that its irclease rate is not exceeded for a od of at least two years of normal or reasonably foreseeable conditions of use of the article. To reconstructed precious and semi-precious stones (CN code 7103 as astablished by Regulation (f) musical instruments;</li> <li>(d) privati glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(e) non-synthetic or reconstructed precious</li></ul>   | 3. P             | aragraph 1 shall also apply to individual parts when placed on the market or used for iewellery-making.  |
| <ul> <li>(b) internal components of watch timepieces inaccessible to consumers;</li> <li>(c) non-synthetic or reconstructed percious and semiprecious stones (CN code 7103, as established by Regulatior (EEC) No 2658/87). uncures containing these subst.</li> <li>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted temperature of at least 500 °C.</li> <li>5 By way of derogation, paragrin 1 shall not apply to jewellery articles placed on the market for the first time b so year of derogation, paragrin 1 shall not apply to jewellery articles placed in the market for the first time b so year of derogation, paragrin 1 shall not apply to jewellery articles placed in the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0.05 % by weight, and th articles ar accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible parts thereof may, during is sufficient to ensure that this release rate is not exceeded for a direct weight of and the some and the some and the some and the some and the pressed as two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>By way of derogation, paragraph 7 shall not apply to:</li> <li>(a) jewellery articles covered by paragraph 1;</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and sem-precious stones (CN code 7103 as established by Regulation (EEC) No 2653/87) unless they have been treated with lead or its compounds or mixtures containing these substate (B) endities and the source is an easy of erogation, paragraph 7.</li> <li>(e) keys and locks, including padlocks;</li> &lt;</ul>  | 4. B<br>(a) c    | y way of derogation, paragraph 1 shall not apply to:<br>rvstal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (14):  |
| <ul> <li>(EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these subst.</li> <li>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted temperature of at least 500 °C.</li> <li>5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles produced before 10 December 1961.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0.05 % by weight, and th articles or accessible parts thereof is equal to or greater than 0.05 % by weight, and the articles or accessible parts thereof is equal to or greater than 0.05 % by weight, and the articles or accessible part to the pressed as metal) in those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm/2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a d af at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>8. By way of derogation, paragraph 7 shall not apply to provide that the article or accessible part of an article may be placed in more sintering of this paragraph, it is considered that any to the division, vitrification or sintering of mineral meted at temperature of at least 500 °C.</li> <li>(e) lorystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(f) norsystal glass, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g</li></ul>  | (b) i            | nternal components of watch timepieces inaccessible to consumers;  |
| <ul> <li>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted temperature of at least 50° C.</li> <li>5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles produced before 10 December 1961.</li> <li>6. By 9 October 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientif formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not me plate non the mark or useshin articles typefol to the general public, if the concentration of lead in mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article. Whether coated or uncoated, does not exceed 0.05 µg/cm2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a d at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, it is considered that an article or accessible part of an article, why paragraph 1; is considered that an article or accessible part of an article, where the set set used the lead or its compounds or instering of mineral set subsci (1) (b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) hor-synthetic excered 0.5% weight;</li> <li>(d) articles and parts of article weight or mate as alter show, witrification or sintering of mineral metled a fee flow cancer 40.5% weight;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the balloy does not exceed 0.5% weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) porta</li></ul>  | (c) r<br>(EE(    | ion-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulation<br>C) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances              |
| <ul> <li>5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time b 9 October 2013 and jewellery articles produced before 10 December 1961.</li> <li>6. By 9 October 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientif formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0.05 % by weight, and th articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible part of an article, whether coated or uncoated, does not exceed 0.05 ug/m2 per hour (equivalent to 0 ug/g/m1), and, for coated articles, that the coated or uncoated, does not exceed 0.05 ug/m2 per hour (equivalent to 0 ug/g/g/m2 per hour (equivalent to 0 ug/g/g/m2 per hour (equivalent to 1 as a detachable or protruding part of that size.</li> <li>8. Browley of derogation, paragraph, it is considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one adimension or has a detachable or protruding part of that size.</li> <li>8. Browley of derogation, paragraph and apply to:</li> <li>(c) nor-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substa (d) ennels, defined as vitriflable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <l< td=""><td>(d) e</td><td>enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a</td></l<></ul> | (d) e            | enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a   |
| <ul> <li>9 Octobe' 2013 and jewellery articles produced before 10 December 1961.</li> <li>6. By 9 Octobe' 2017, the Commission shall re-evaluate paragraphs 1 to 5 of this entry in the light of new scientifi formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and th articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and th articles or accessible part of an article, within the schemonstrated that the rate of lead release from such an article or accessible part of an article within the schemonstrated that the rate of lead release from such an article or accessible part of an article may end pressed of the paragraph. It is considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>8. By way of derogation, paragraph 1. Si considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>8. By way of derogation, paragraph 1. Si considered that and or its compounds or mixtures containing these substa (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral meted a temperature of at least 500 °C;</li> <li>(e) No 25638/N Juless they have been treated with lead or its compounds or mixtures containing these substa (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral meted a temperature of at least 500 °C;</li> <li>(f) musical instruments;</li> <li>(h) peri</li></ul>  | 5. B             | y way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time before  |
| <ul> <li>formation, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and the articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed on mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a d at least two years of normal or reasonably foreseeable conditions of use of the article. They be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or porturding part of that size.</li> <li>8. By way of derogation, paragraph 7 shall not apply to:</li> <li>(a) jewellery articles covered by paragraph 1;</li> <li>(b) crystal glass as defined in Arnex 1 (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic des covered by paragraph 1;</li> <li>(b) crystal glass as defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the b alloy does not exceed 0.5 % by weight, and the fusion, vitrification or sintering of mineral melted releads a writing instruments;</li> <li>(f) Directive 201/45/EC of the European Parliament and of the Council (2);</li> <li>(g) articles and p</li></ul>  | 9 0              | ctober 2013 and jewellery articles produced before 10 December 1961.   |
| <ul> <li>graph 1 and, if appropriate, modify this entry accordingly.</li> <li>7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and th articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a of of at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>8. By way of derogation, paragraph 7; shall not apply to:</li> <li>(a) investal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulatior (EEC) No 2658/R07) unless they have been treated with lead or its compounds or mixtures containing these substat (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of a telast 500° C;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi alloy dees not exceed 0,5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(ii) Directive 201/16</li></ul>  | forr             | nation, including the availability of alternatives and the migration of lead from the articles referred to in para-  |
| <ul> <li>pressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and th anticles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a od of at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, 1: to considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>8. By way of derogation, paragraph 7 shall not apply to:</li> <li>(a) jewellery articles covered by paragraph 1; 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulatior (EEC) No 2558/87) unless they have been treated with lead or its compounds or mixtures containing these substa (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of a tleast 500 we?;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi alloy does not exceed 0, 5 why weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles with the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Directive 94/62/EC;</li> <li>(iii) Directive 94/62/EC;</li> <li>(iii) Directive 94/62/EC;</li> <li>(iii) Directive 94/62/EC;</li> <li>(iii)</li></ul>   | gra              | ph 1 and, if appropriate, modify this entry accordingly.   |
| <ul> <li>mouth by children.</li> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any s accessible part of an article, where coating is sufficient to ensure that this release rate is not exceeded for a of at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed it mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>8. By way of derogation, paragraph 7 shall not apply to:</li> <li>(a) jewellery articles covered by paragraph 1;</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substatic (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bialoy does not exceed 0,5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) Directive 2007/48/27CC;</li> <li>(ii) Directive 2007/48/27CC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (1);</li> <li>(j) Directive 2007/48/EC of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraph 7 and 8(e), (f), (f) and (j) of this entry in the light of scientific information, inclu</li></ul>  | pre              | ssed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and those   |
| <ul> <li>That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any si accessible part of an article, whether coated or uncoated, does not exceed 0.5 µg/cm2 per hour (equivalent to 0 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a of at least two years of hormal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>By way of derogation, paragraph 17 shall not apply to: <ul> <li>(a) jewellery articles covered by paragraph 1;</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substat (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) particles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi alloy does anticles;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-Carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(ii) Directive 2014/36/EC;</li> <li>(iii) Directive 2014/36/EC;</li> <li>(iii) Directive 2014/36/EC;</li> <li>(iii) Directive 2014/36/EC;</li> <li>(iiii) Directive 2014/36/EC;</li> <li>(b) deroytal device and aragraph 7 shall not apply to articles placed on the migration of lead from the articles referred paragraph 7; including the requitabli</li></ul></li></ul>  |                  |  |
| <ul> <li>µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a of at least two years of normal or reasonably foreseeable conditions of use of the article.</li> <li>For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>(a) jewellery articles covered by paragraph 1? is considered that an article or accessible part of an article may be placed in mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) nov 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substa (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi alloy does not exceed 0,5% by weight;</li> <li>(i) nortable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 2011/65/EU of the European Parliament and of the Council (1);</li> <li>(iii) Directive 2011/65/EU of the European Parliament and of the Council (1);</li> <li>(b) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2013, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referee paragraph 7, including the requirement on coating integrity, and, if appropriate, modify</li></ul>   | Tha              | t limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such  |
| od of at least two years of normal or reasonably foreseeable conditions of use of the article.<br>For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in<br>mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.<br>8, By way of derogation, paragraph 7 shall not apply to:<br>(a) iewellery articles covered by paragraph 1;<br>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;<br>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulatior<br>(EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substa<br>(d) enamels, defined as virifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a<br>temperature of at least 500 °C;<br>(e) keys and locks, including padlocks;<br>(f) musical instruments;<br>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi<br>alloy does not exceed 0,5 % by weight;<br>(h) he tips of writing instruments;<br>(i) portable zinc-carbon batteries and button cell batteries;<br>(k) articles within the scope of:<br>(i) Directive 2009/48/EC of the European Parliament and of the Council (1);<br>(ii) Directive 2011/65/EU of the European Parliament and of the Council (2)<br>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of<br>scientific information, including the availability of alternatives and the migration of lead from the articles referred<br>paragraph 7, including the availability of alternatives and the migration of lead from the articles referred<br>paragraph 7, including the availability of alternatives and the migration of lead from the articles referred<br>paragraph 7, including the availability of alternatives and the migration of lead from the articles referred<br>paragraph 7, including the staft 15 February 2023 in or within 100 metr  | acce<br>ug/      | essible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm2 per hour (equivalent to 0,05 g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a peri- |
| <ul> <li>8. By way of derogation, paragraph 7 shall not apply to: <ul> <li>(a) jewellery articles covered by paragraph 1;</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substat (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 50° °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bialoy does not exceed 0,5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2019/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2019/48/EC of the European Parliament and of the Council (2);</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>(1) Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gu</li></ul></li></ul>  | od o             | of at least two years of normal or reasonably foreseeable conditions of use of the article.  |
| <ul> <li>8. By way of derogation, paragraph 7 shall not apply to: <ul> <li>(a) jewellery articles covered by paragraph 1;</li> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substat (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 50° °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bialoy does not exceed 0,5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2019/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2019/48/EC of the European Parliament and of the Council (2);</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>(1) Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gu</li></ul></li></ul>  | For              | the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in the<br>uth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.   |
| <ul> <li>(b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;</li> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substal (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bial doy does not exceed 0.5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) portable zinc-Carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(ii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2009/48/EC of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, (i appropriate, modify this entry according);</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shootin</li></ul>  | 8. B             | y way of derogation, paragraph 7 shall not apply to:   |
| <ul> <li>(c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substa (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi alloy does not exceed 0.5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) religious articles;</li> <li>(j) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(ii) Directive 94/62/EC;</li> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referree paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry activeles placed on the market for the first time before 1 Jt 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging unshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting for the purposes of the first subparagraph.</li> <li>(a) "within 100 metres of wetlands;" (c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(b) carrying any such gunshot where this occu</li></ul>  | (a) J<br>(b) (   | ewellery articles covered by paragraph 1;<br>crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;   |
| <ul> <li>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted a temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bi alloy does not exceed 0,5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) religious articles;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(ii) Directive 94/62/EC;</li> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2001/45/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By vay of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Jt 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1% by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting for the purposes of the first subparagraph:</li> <li>(a) "wetland shooting" means shooting in or within 100 metres of wetlands;</li> <li>(b) "wetland shooting or as shooting in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(d) "wetland shooting or as shooting in or within 100 metres</li></ul>   | (c) r            | non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation  |
| <ul> <li>temperature of at least 500 °C;</li> <li>(e) keys and locks, including padlocks;</li> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bralloy does not exceed 0.5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) religious articles;</li> <li>(j) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) Carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting means shooting in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(d) "wetland shooting or means shooting in or within 100 metres of the option granted by that paragraph 12. that it intends to make use of the option granted by that paragraph 12. that it intends to make use of the option granted by that paragraph 12. that it intends to make use of the option gr</li></ul>  | (EEC<br>(d) 6    | enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted at a  |
| <ul> <li>(f) musical instruments;</li> <li>(g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the bialloy does not exceed 0,5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2009/48/EC of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the availability of alternatives and the migration of the first time before 1 July 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting for the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(d) if a person is found carrying purphargraph 12 that it intends to make use of the option granted by that paragraph 12. Inf at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that Mere State may, in place of the restriction laid down in the first subparagraph of parag</li></ul>  | tem              | perature of at least 500 °C;   |
| <ul> <li>alloy does not exceed 0.5 % by weight;</li> <li>(h) the tips of writing instruments;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles;</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2001/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph.</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of goin shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>(d) "wetland shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>(e) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of g</li></ul>  | (f) n            | nusical instruments;   |
| <ul> <li>(h) the tips of writing instruments; <sup>-</sup></li> <li>(i) religious articles;</li> <li>(j) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2011/65/EU of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/165/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Jt 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(d) "wetland shooting means shooting in or within 100 metres of wetlands;</li> <li>(e) mass some other type of shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 1 shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 1 Shall not apply in a Member State are wetlands, that N ber State moting 1. Junohibit the following atts throughout i</li></ul>   | (g) allo         | articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the brass   |
| <ul> <li>(i) portable zinc-carbon batteries and button cell batteries;</li> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Jt 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: (a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands;</li> <li>(d) if a least 20 % in total of the territory, excluding the territorial waters, of a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragraph 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the territory from 15 February 2024:</li> </ul>   | (h) t            | he tips of writing instruments;  |
| <ul> <li>(k) articles within the scope of:</li> <li>(i) Directive 94/62/EC;</li> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting or as part of going shooting or as part of going where the trib and shooting unless that person can demonstrate it was some other type of shooting.</li> <li>The restriction laid down in the first subparagraph 12 that it intends to make use of the option granted by that paragraph 2. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of its territory from 15 February 2024:</li> </ul>   | (i) re<br>(i) p  | eligious articles;<br>ortable zinc-carbon batteries and button cell batteries:   |
| <ul> <li>(ii) Regulation (EC) No 1935/2004;</li> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.</li> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Jt 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited:</li> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of goin shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragraph 2. If at least 20 % in total of the territory excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi acts throughout the whole of its territory from 15 February 2024:</li> </ul>   | (k) a            | articles within the scope of:  |
| <ul> <li>(iii) Directive 2009/48/EC of the European Parliament and of the Council (1);</li> <li>(iv) Directive 2011/65/EU of the European Parliament and of the Council (2)</li> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly. 10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: (a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting or as part of going shooting or as part of going wetland shooting the shooting or concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragraph 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph have subparagraph of paragraph 11, prohibit the followi acts throughout the whole of its territory from 15 February 2024:<td>(i) D<br/>(ii) F</td><td>lirective 94/62/EC;<br/>Regulation (EC) No 1935/2004:</td></li></ul>  | (i) D<br>(ii) F  | lirective 94/62/EC;<br>Regulation (EC) No 1935/2004:   |
| <ul> <li>9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly. 10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: (a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands, while out shooting or as part of going on a spart of going shooting. The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph 15.</li> </ul>   | (iii)            | Directive 2009/48/EC of the European Parliament and of the Council (1);  |
| <ul> <li>scientific information, including the availability of alternatives and the migration of lead from the articles referred paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly. 10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: (a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands,</li> <li>(d) wetson is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph 15.</li> </ul>   | (IV)<br>9. B     | y 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (i) of this entry in the light of new  |
| <ul> <li>10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 Ju 2016.</li> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: (a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetlan (b) "wetland shooting" means shooting in or within 100 metres of wetlands,</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting. The restriction laid down in the first subparagraph hall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the territory from 15 February 2024:</li> </ul>  | scie             | ntific information, including the availability of alternatives and the migration of lead from the articles referred to in  |
| <ul> <li>11. Doing either of the following acts after 15 February 2023 in or within 100 metres of wetlands is prohibited: <ul> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetland</li> <li>(b) "wetland shooting" means shooting in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph 15 February 2024:</li> </ul></li></ul>   | 10.              | By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 June   |
| <ul> <li>(a) discharging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by weight;</li> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph: <ul> <li>(a) "within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetlan (b) "wetland shooting" means shooting in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph 20.</li> </ul> </li> </ul>   |                  |  |
| <ul> <li>(b) carrying any such gunshot where this occurs while out wetland shooting or as part of going wetland shooting For the purposes of the first subparagraph:</li> <li>(a) "within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetlan (b) "wetland shooting" means shooting in or within 100 metres of wetlands;</li> <li>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting.</li> <li>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction laid down in the first subparagraph 22. If at least 20 % in total of the territory from 15 February 2024:</li> </ul>  | (a) (            | lischārging gunshot containing a concentration of lead (expressed as metal) equal to or greater than 1 % by  |
| For the purposes of the first subparagraph:<br>(a) "within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetland<br>(b) "wetland shooting" means shooting in or within 100 metres of wetlands;<br>(c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of goin<br>shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate<br>it was some other type of shooting.<br>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie<br>Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap<br>12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that M<br>ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi<br>acts throughout the whole of its territory from 15 February 2024:   |                  |  |
| (b) "wetland shooting" means shooting in or within 100 metres of wetlands; (c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of goin shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate it was some other type of shooting. The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N ber State may, in place of the restriction field down in the first subparagrap 2024:  | For              | the purposes of the first subparagraph:  |
| (c) if a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of goin<br>shooting, the shooting concerned shall be presumed to be wetland shooting unless that person can demonstrate<br>it was some other type of shooting.<br>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie<br>Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap<br>12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N<br>ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi<br>acts throughout the whole of its territory from 15 February 2024:  | (a) "<br>(b) '   | within 100 metres of wetlands" means within 100 metres outward from any outer boundary point of a wetland;<br>'wetland shooting" means shooting in or within 100 metres of wetlands:   |
| it was some other type of shooting.<br>The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie<br>Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap<br>12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N<br>ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi<br>acts throughout the whole of its territory from 15 February 2024:   | (c) i            | f a person is found carrying gunshot in or within 100 metres of wetlands while out shooting or as part of going  |
| The restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifie<br>Commission in accordance with paragraph 12 that it intends to make use of the option granted by that paragrap<br>12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that N<br>ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi<br>acts throughout the whole of its territory from 15 February 2024:  |                  |  |
| 12. If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that is ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi acts throughout the whole of its territory from 15 February 2024:  | The              | restriction laid down in the first subparagraph shall not apply in a Member State if that Member State notifies the  |
| ber State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the followi<br>acts throughout the whole of its territory from 15 February 2024:   | Con<br>12.       | nmission in accordance with paragraph 12 that it intends to make use of the option granted by that paragraph.<br>If at least 20 % in total of the territory, excluding the territorial waters, of a Member State are wetlands, that Mem-     |
|   | ber              | State may, in place of the restriction laid down in the first subparagraph of paragraph 11, prohibit the following   |
| (a) the placing on the market of gunshot containing a concentration of lead (expressed as metal) equal to or grea   |                  |  |
| than 1 % by weight;   | thai             | n 1 % by weight;   |
| (b) the discharging of any such gunshot;<br>(c) carrying any such gunshot while out shooting or as part of going shooting.  | (D) t<br>(C) c   | arrying any such gunshot while out shooting or as part of going shooting.  |
| Any Member State intending to make use of the option granted by the first subparagraph shall notify the Commi   | Any              | Member State intending to make use of the option granted by the first subparagraph shall notify the Commission   |
| by it to the Commission without delay and in any event by 15 August 2023. The Commission shall make publicly a  | of ti<br>bv i    | his intention by 15 August 2021. The Member State shall communicate the text of the national measures adopted t to the Commission without delay and in any event by 15 August 2023. The Commission shall make publicly avail-                |

Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

#### article number: 1P7E

| Lege | nd   |
|------|--|
|      | 13. For the purposes of paragraphs 11 and 12:  |
|      | (a) "wetlands" means areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide dees not avecaged to react the depth of which at low tide dees n |
|      | tide does not exceed 6 metres;<br>(b) "gunshot" means pellets used or intended for use in a single charge or cartridge in a shotgun;   |
|      | (c) "shotgun" means a smooth-bore gun, excluding airguns;  |
|      | (d) "shooting" means any shooting with a shotgun;  |
|      | (e) "carrying" means any carrying on the person or carrying or transporting by any other means:  |
|      | (f) in determining whether a person found with gunshot is carrying gunshot "as part of going shooting":  |
|      | (i) regard shall be had to all the circumstances of the case;  |
|      | (ii) the person found with the gunshot need not necessarily be the same person as the person shooting.<br>14. Member States may maintain national provisions for protection of the environment or human health in force on 1   |
|      | February 2021 and restricting lead in gunshot more severely than provided for in paragraph 11.   |
|      | The Member State shall communicate the text of those national provisions to the Commission without delay. The  |
|      | Commission shall make publicly available without delay any such texts of national provisions received by it.   |
| R72  | 1. Shall not be placed on the market after 1 November 2020 in any of the following:  |
|      | (a) clothing or related accessories;<br>(b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact  |
|      | with human skin to an extent similar to clothing;  |
|      | (c) footwear;  |
|      | if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is   |
|      | present in a concentration, measured in homogeneous material, equal to or greater than that specified for that sub-  |
|      | stance in Appendix 12.   |
|      | <ol><li>By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or<br/>upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between</li></ol>   |
|      | 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter.  |
|      | 3. Paragraph 1 shall not apply to:   |
|      | (a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of  |
|      | natural leather, fur or hide;<br>(b) non-taytile factorize and non-taytile decorative attachments;   |
|      | (b) non-textile fasteners and non-textile decorative attachments;<br>(c) second-hand clothing, related accessories, textiles other than clothing or footwear   |
|      | (d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners.   |
|      | 4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the  |
|      | scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or Regulation (EU) 2017/745 of   |
|      | the European Parliament and of the Council (**).   |
|      | 5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose.   |
|      | used only once of for a limited time and are not intended for subsequent use for the same of a similar purpose.  |

used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose. 6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation. 7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly. (\*) Regulation (EU) 2016/425 of the European Parliament and of the Council of of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51). (\*\*) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Coun-cil Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).



Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 %



#### article number: **1P7E**

HNO₃

| Legen |  |
|-------|--|
| R75   | <ol> <li>Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub<br/>stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or</li> </ol> |
|       | are present in the following circumstances:  |
|       | (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category   |
|       | 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;   |
|       | (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant   |
|       | category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by   |
|       | weight;<br>(Vig the area of a substance classified in Part 2 of Approv VI to Pagulation (FC) No 1272/2008 as skin consistent of  |
|       | (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat-<br>egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by                       |
|       | weight;  |
|       | (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat-   |
|       | egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:  |
|       | (i) 0,1 % by weight, if the substance is used solely as a pH regulator;  |
|       | (ii) 0,01 % by weight, in all other cases;   |
|       | (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;   |
|       | (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g  |
|       | (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the   |
|       | mixture in a concentration equal to or greater than 0,00005 % by weight:<br>(i) "Rinse-off products";  |
|       | (ii) "Not to be used in products applied on mucous membranes";   |
|       | (iii) "Not to be used in eye products";  |
|       | (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in                       |
|       | the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;  |
|       | (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen-   |
|       | tration equal to or greater than the concentration limit specified for that substance in that Appendix.<br>2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mix-                                 |
|       | ture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures com-  |
|       | monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of   |
|       | making a mark or design on his or her body.<br>3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest   |
|       | concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix   |
|       | 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of  |
|       | paragraph 1 shall apply to that substance.   |
|       | 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:<br>(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);  |
|       | (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).   |
|       | 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub-   |
|       | stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of ap-                 |
|       | plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-   |
|       | graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.  |
|       | 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing   |
|       | of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or   |
|       | such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry,                           |
|       | that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the  |
|       | date falling 18 months after entry into force of the act by which that amendment was made.   |
|       | 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the   |
|       | mixture is marked with the following information:<br>(a) the statement "Mixture for use in tattoos or permanent make-up";  |
|       | (b) a reference number to uniquely identify the batch;   |
|       | (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the                                  |
|       | IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall   |
|       | be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means  |
|       | any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Im<br>purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of                         |
|       | this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi-   |
|       | ent does not need to be marked in accordance with this Regulation;   |
|       | (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;  |
|       | (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra-<br>tion limit specified in Appendix 13;   |
|       | (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below  |
|       | the concentration limit specified in Appendix 13;  |
|       | (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.  |
|       | The information shall be clearly visible, easily legible and marked in a way that is indelible.  |
|       | The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the   |
|       | market, unless the Member State(s) concerned provide(s) otherwise.<br>Where necessary because of the size of the package, the information listed in the first subparagraph, except for point   |
|       | (a), shall be included instead in the instructions for use.  |
|       | Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the  |
|       | procedure with the information marked on the package or included in the instructions for use pursuant to this para-<br>graph.  |
|       | 2.~4   |



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

#### article number: 1P7E

#### Legend

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

#### Substance of Very High Concern (SVHC)

| Name acc. to invent-<br>ory | CAS<br>No      | Listed in      | Remarks    | Latest ap-<br>plication<br>date | Sunset<br>date | Date of in-<br>clusion |
|-----------------------------|----------------|----------------|------------|---------------------------------|----------------|------------------------|
| lead dinitrate              | 10099-<br>74-8 | Candidate list | Repr. A57c |                                 |                | 2012-12-19             |

#### Legend

candidate list Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV Repr. A57c Toxic for reproduction (article 57c)

#### **Seveso Directive**

| 2012/18/EU (Seveso III) |                                       |   |       |  |
|-------------------------|---------------------------------------|---|-------|--|
| Νο                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap-<br>plication of lower and upper-tier re-<br>quirements | Notes |  |
|                         | not assigned                          |   |       |  |

#### **Deco-Paint Directive**

| VOC content | 0 %<br>0 <sup>g</sup> / <sub>l</sub> |
|-------------|--------------------------------------|
|-------------|--------------------------------------|

#### Industrial Emissions Directive (IED)

| VOC content                                | 0 %                           |
|--|-------------------------------|
| VOC content (Water content was discounted) | 0 <sup>g</sup> / <sub>l</sub> |

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

## Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

according to Regulation (EC) No. 1907/2006 (REACH)



article number: 1P7E

| Water Framework Directive (WFD) |  |           |           |         |
|---------------------------------|--|-----------|-----------|---------|
| List of pollutants (WFD)        |  |           |           |         |
| Name of substance               | Name acc. to inventory   | CAS No    | Listed in | Remarks |
| Lead(II) nitrate                | lead compounds   |           | b)        |         |
| Lead(II) nitrate                | lead compounds   | 7439-92-1 | c)        |         |
| Lead(II) nitrate                | Substances which contribute to<br>eutrophication (in particular, ni-<br>trates and phosphates)   |           | a)        |         |
| Lead(II) nitrate                | Substances and preparations, or<br>the breakdown products of such,<br>which have been proved to pos-<br>sess carcinogenic or mutagenic<br>properties or properties which<br>may affect steroidogenic, thyroid,<br>reproduction or other endocrine-<br>related functions in or via the<br>aquatic environment |           | a)        |         |
| Lead(II) nitrate                | Metals and their compounds   |           | a)        |         |
| copper dinitrate                | Substances which contribute to<br>eutrophication (in particular, ni-<br>trates and phosphates)   |           | a)        |         |
| copper dinitrate                | Metals and their compounds   |           | a)        |         |

#### Legend

A) B) C)

Indicative list of the main pollutants

List of priority substances in the field of water policy Environmental Quality Standards for Priority Substances and certain other pollutants

#### Regulation on the marketing and use of explosives precursors

| plosives precursors which are subject to restrictions |           |                      |         |                |   |
|---|-----------|----------------------|---------|----------------|---|
| Name of substance                                     | CAS No    | Type of registration | Remarks | Limit<br>value | Upper<br>limit<br>value for<br>the pur-<br>pose of<br>licensing<br>under<br>Article<br>5(3) |
| Nitric acid% [C ≤ 70 %]                               | 7697-37-2 | Annex I              |         | 3 % w/w        | 10 % w/w  |

Legend annex I

Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below

#### Additional statements

If the product is passed on to third parties, in accordance with Article 7 "Notification of the supply chain" of Regulation EU 2019/1148, the information obligation is subject to the entire supply chain and all other provisions mentioned in Article 7 on restricted and regulated raw materials.

#### **Regulation on drug precursors**

none of the ingredients are listed

#### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed



#### Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % HNO<sub>3</sub>

article number: 1P7E

#### Regulation concerning the export and import of hazardous chemicals (PIC)

chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure').

| Name of substance | Name acc. to inventory | CAS No | Category /<br>subcategory | Use limita-<br>tion |
|-------------------|------------------------|--------|---------------------------|---------------------|
| Lead(II) nitrate  | lead compounds         |        | i(2)                      | sr                  |

#### Legend

i(2) sr

Sub-category: i(2) - industrial chemical for public use Use limitation: severe restriction (for the sub-category or sub-categories concerned) according to Union legislation

#### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | all ingredients are listed     |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | all ingredients are listed     |
| KR      | KECI       | all ingredients are listed     |
| MX      | INSQ       | all ingredients are listed     |
| NZ      | NZIoC      | all ingredients are listed     |
| PH      | PICCS      | all ingredients are listed     |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | all ingredients are listed     |
| US      | TSCA       | all ingredients are listed     |

#### Legend

| AICS       | Australian Inventory of Chemical Substances                             |
|------------|---|
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Rea. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |
|            |   |

#### 15.2 Chemical Safety Assessment

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

according to Regulation (EC) No. 1907/2006 (REACH)



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: 1P7E

### **SECTION 16: Other information**

#### Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations  |
|-----------------|---|
| 2006/15/EC      | Commission Directive establishing a second list of indicative occupational exposure limit values in imple-<br>mentation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC                         |
| 98/24/EC        | Council Directive on the protection of the health and safety of workers from the risks related to chemical agents at work   |
| Acute Tox.      | Acute toxicity  |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de naviga-<br>tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In-<br>land Waterways) |
| ADR             | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern-<br>ing the International Carriage of Dangerous Goods by Road)  |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard   |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard   |
| ATE             | Acute Toxicity Estimate   |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C       | Ceiling value   |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| CLWR            | Control of Lead at Work Regulations   |
| CLWR-NIR        | Control of Lead at Work Regulations (Northern Ireland)  |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)  |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi-<br>fier of substances commercially available within the EU (European Union)  |
| EH40/2005       | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li-<br>cence/)  |
| EINECS          | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS          | European List of Notified Chemical Substances   |
| EmS             | Emergency Schedule  |
| ErC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  |
| Eye Dam.        | Seriously damaging to the eye   |
| Eye Irrit.      | Irritant to the eye   |
| GHS             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na-<br>tions  |
| IARC            | International Agency for Research on Cancer   |
| IATA            | International Air Transport Association   |
| IATA/DGR        | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO            | International Civil Aviation Organization   |
| ICAO-TI         | Technical instructions for the safe transport of dangerous goods by air   |

according to Regulation (EC) No. 1907/2006 (REACH)



# Multi-Element ICP - Standard Solution CR-17 ROTI®Star 6 elements in 5 % $\rm HNO_3$

article number: **1P7E** 

| Abbr.       | Descriptions of used abbreviations   |
|-------------|--|
| IMDG        | International Maritime Dangerous Goods Code  |
| IMDG-Code   | International Maritime Dangerous Goods Code  |
| index No    | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008   |
| IOELV       | Indicative occupational exposure limit value   |
| LC50        | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval   |
| Met. Corr.  | Substance or mixture corrosive to metals   |
| M-factor    | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |
| NLP         | No-Longer Polymer  |
| OEL         | Workplace exposure limit   |
| Ox. Liq.    | Oxidising liquid   |
| PBT         | Persistent, Bioaccumulative and Toxic  |
| ppm         | Parts per million  |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals   |
| Repr.       | Reproductive toxicity  |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula-<br>tions concerning the International carriage of Dangerous goods by Rail)   |
| Skin Corr.  | Corrosive to skin  |
| Skin Irrit. | Irritant to skin   |
| STEL        | Short-term exposure limit  |
| STOT RE     | Specific target organ toxicity - repeated exposure   |
| SVHC        | Substance of Very High Concern   |
| TWA         | Time-weighted average  |
| VOC         | Volatile Organic Compounds   |
| vPvB        | Very Persistent and very Bioaccumulative   |
| WEL         | Workplace exposure limit   |

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).



article number: 1P7E

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code   | 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.   |
| H318   | Causes serious eye damage.                                      |
| H319   | Causes serious eye irritation.                                  |
| H331   | Toxic if inhaled.   |
| H332   | Harmful if inhaled.   |
| H360Df | May damage the unborn child. Suspected of damaging fertility.   |
| 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.           |

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

