

**Trade name:** WIRONIUM RP (REF 50530)**Current version :** 2.0.0, issued: 24.03.2020**Replaced version:** 1.0.0, issued: 14.03.2019**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****WIRONIUM RP (REF 50530)****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Manufacturing of dental prosthesis in a dental laboratory

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**BEGO Bremer Goldschlägerei  
Wilh. Herbst GmbH & Co. KG  
Wilhelm-Herbst-Str. 1  
28359 BremenTelephone no. +49/ 421/ 2028 – 0  
Fax no. +49/ 421/ 2028 – 115  
e-mail msds@bego.com**Information provided by / telephone**

Research &amp; Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 – 130 (Chief Development Officer alloys)

**Advice on Safety Data Sheet**

msds@bego.com

**1.4 Emergency telephone number**For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**Acute Tox. 4; H302  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410  
Carc. 1B; H350i  
Eye Irrit. 2; H319  
Repr. 2; H361f  
Resp. Sens. 1B; H334  
Skin Sens. 1; H317**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

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GHS07



GHS08



GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

cobalt

**Hazard statement(s)**

H302 Harmful if swallowed.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H350i May cause cancer by inhalation.  
 H361f Suspected of damaging fertility.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P201 Obtain special instructions before use.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P284 In case of inadequate ventilation wear respiratory protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Supplemental label elements**

"Restricted to professional users"

**2.3 Other hazards**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

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

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

| No | Substance name   | Classification (EC) 1272/2008 (CLP)   | Additional information |        |
|----|--|---|------------------------|--------|
|    | CAS / EC / Index / REACH no                                |   | Concentration          | %      |
| 1  | <b>cobalt</b>  |   |                        |        |
|    | 7440-48-4<br>231-158-0<br>027-001-00-9<br>01-2119517392-44 | Skin Sens. 1; H317<br>Resp. Sens. 1B; H334<br>Repr. 2; H361f<br>Carc. 1B; H350i<br>Acute Tox. 4; H302<br>Eye Irrit. 2; H319<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | >= 50.00 - < 70.00     | %-b.w. |
| 2  | <b>chromium</b>  |   |                        |        |
|    | 7440-47-3<br>231-157-5<br>-                                | -   | >= 25.00 - < 50.00     | %-b.w. |

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|                  |  |  |
|------------------|--|--|
| 01-2119485652-31 |  |  |
|------------------|--|--|

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 1  | -    | -                             | M = 10           | -                  |

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 1  | H350i<br>inhalational; -; -          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

#### After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area. Irregular breathing/no breathing: artificial respiration.

#### After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). In case of irritation consult an ophthalmologist.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Metal fire powders; Sand

#### Unsuitable extinguishing media

Water; Carbon dioxide

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

In the event of fire, the following can be released: Metal oxides

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation. Use personal protective clothing. Avoid contact with skin, eyes and clothing. Keep away from ignition sources.

#### For emergency responders

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No data available. Personal protective equipment (PPE) - see Section 8.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid raising dust. When collected, handle material as described under the section heading "Disposal considerations".

## 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Avoid the formation and deposition of dust.

#### General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from food, drink and animal feeding stuffs. Do not inhale vapours or dust. Provide eye wash fountain in work area. Have emergency shower available.

#### Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Do not store together with: Acids; Bases

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

| No   | Substance name                            | CAS no.                                    | EC no.            |
|--|---|--|-------------------|
| 1  | cobalt                                    | 7440-48-4                                  | 231-158-0         |
| <b>List of approved workplace exposure limits (WELs) / EH40</b>                                      |   |  |                   |
| Cobalt & cobalt compounds (as Co)  |   |  |                   |
|  | WEL long-term (8-hr TWA reference period) | 0.1  | mg/m <sup>3</sup> |
|  | Comments                                  | Carc (cobalt dichloride and sulphate), Sen |                   |
| 2  | chromium                                  | 7440-47-3                                  | 231-157-5         |
| <b>List of approved workplace exposure limits (WELs) / EH40</b>                                      |   |  |                   |
| Chromium   |   |  |                   |
|  | WEL long-term (8-hr TWA reference period) | 0.5  | mg/m <sup>3</sup> |
| <b>2006/15/EC</b>  |   |  |                   |
| Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble) |   |  |                   |
|  | WEL long-term (8-hr TWA reference period) | 2  | mg/m <sup>3</sup> |

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|   |   |                          |                   |
|---|---|--------------------------|-------------------|
| <b>3</b>  | <b>Dust</b>                               |                          |                   |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |   |                          |                   |
| Dust respirable   |   |                          |                   |
|   | WEL long-term (8-hr TWA reference period) | 4                        | mg/m <sup>3</sup> |
|   | Comments                                  | see Definition 44 "Dust" |                   |
| <b>List of approved workplace exposure limits (WELs) / EH40</b> |   |                          |                   |
| Dust inhalable  |   |                          |                   |
|   | WEL long-term (8-hr TWA reference period) | 10                       | mg/m <sup>3</sup> |
|   | Comments                                  | see Definition 44 "Dust" |                   |

### DNEL, DMEL and PNEC values

#### DNEL values (worker)

| No | Substance name    |                     |        | CAS / EC no            |
|----|-------------------|---------------------|--------|------------------------|
|    | Route of exposure | Exposure time       | Effect | Value                  |
| 1  | cobalt            |                     |        | 7440-48-4<br>231-158-0 |
|    | inhalative        | Long term (chronic) | local  | 40 µg/m <sup>3</sup>   |

#### DNEL value (consumer)

| No | Substance name    |                     |          | CAS / EC no            |
|----|-------------------|---------------------|----------|------------------------|
|    | Route of exposure | Exposure time       | Effect   | Value                  |
| 1  | cobalt            |                     |          | 7440-48-4<br>231-158-0 |
|    | oral              | Long term (chronic) | systemic | 9.5 µg/kg/day          |
|    | inhalative        | Long term (chronic) | local    | 6.3 µg/m <sup>3</sup>  |

#### PNEC values

| No | Substance name         |                       | CAS / EC no            |
|----|------------------------|-----------------------|------------------------|
|    | ecological compartment | Type                  | Value                  |
| 1  | cobalt                 |                       | 7440-48-4<br>231-158-0 |
|    | water                  | fresh water           | 0.51 µg/L              |
|    | water                  | marine water          | 2.36 µg/L              |
|    | water                  | fresh water sediment  | 9.5 mg/kg dry weight   |
|    | water                  | marine water sediment | 9.5 mg/kg dry weight   |
|    | soil                   | -                     | 10.9 mg/kg dry weight  |
|    | sewage treatment plant | -                     | 0.37 mg/L              |

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (part): EN 143 - P3

#### Eye / face protection

Safety glasses (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid

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permanent use of protective gloves.  
 Appropriate Material butyl rubber  
 Appropriate Material Nitrile butyl rubber

**Other**  
 Protective clothing

**Environmental exposure controls**  
 No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                |
|--|----------------|
| <b>Form/Colour</b>                               |                |
| Powder   |                |
| <b>Odour</b>                                     |                |
| No data available                                |                |
| <b>Odour threshold</b>                           |                |
| No data available                                |                |
| <b>pH value</b>                                  |                |
| No data available                                |                |
| <b>Boiling point / boiling range</b>             |                |
| No data available                                |                |
| <b>Melting point / melting range</b>             |                |
| Value  | 1200 - 1550 °C |
| Source   | supplier       |
| <b>Decomposition point / decomposition range</b> |                |
| No data available                                |                |
| <b>Flash point</b>                               |                |
| No data available                                |                |
| <b>Auto-ignition temperature</b>                 |                |
| No data available                                |                |
| <b>Oxidising properties</b>                      |                |
| No data available                                |                |
| <b>Explosive properties</b>                      |                |
| No data available                                |                |
| <b>Flammability (solid, gas)</b>                 |                |
| No data available                                |                |
| <b>Lower flammability or explosive limits</b>    |                |
| No data available                                |                |
| <b>Upper flammability or explosive limits</b>    |                |
| No data available                                |                |
| <b>Vapour pressure</b>                           |                |
| No data available                                |                |
| <b>Vapour density</b>                            |                |
| No data available                                |                |
| <b>Evaporation rate</b>                          |                |
| No data available                                |                |
| <b>Relative density</b>                          |                |
| No data available                                |                |
| <b>Density</b>                                   |                |

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|   |
|---|
| No data available                             |
| <b>Solubility in water</b>                    |
| No data available                             |
| <b>Solubility(ies)</b>                        |
| No data available                             |
| <b>Partition coefficient: n-octanol/water</b> |
| No data available                             |
| <b>Viscosity</b>                              |
| No data available                             |

## 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

None, when used as directed.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

### 10.5 Incompatible materials

Acids; Bases

### 10.6 Hazardous decomposition products

Fumes of metal oxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| Acute oral toxicity (result of the ATE calculation for the mixture) |   |
|---|---|
| No  | Product Name  |
| 1   | WIRONIUM RP (REF 50530)   |
| ATE (Mixture)   | 830.82  |
| Method  | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6. |

| Acute oral toxicity |                |           |                  |
|---------------------|----------------|-----------|------------------|
| No                  | Substance name | CAS no.   | EC no.           |
| 1                   | cobalt         | 7440-48-4 | 231-158-0        |
| LD50                | appr.          | 550       | mg/kg bodyweight |
| Species             | rat            |           |                  |
| Method              | OECD 425       |           |                  |
| Source              | ECHA           |           |                  |

| Acute dermal toxicity |                |           |                  |
|-----------------------|----------------|-----------|------------------|
| No                    | Substance name | CAS no.   | EC no.           |
| 1                     | cobalt         | 7440-48-4 | 231-158-0        |
| LD50                  | >              | 2000      | mg/kg bodyweight |
| Species               | rabbit         |           |                  |
| Method                | OECD 402       |           |                  |

| Acute inhalational toxicity |  |  |  |
|-----------------------------|--|--|--|
|-----------------------------|--|--|--|

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| No | Substance name       | CAS no.   | EC no.    |
|----|----------------------|-----------|-----------|
| 1  | cobalt               | 7440-48-4 | 231-158-0 |
|    | LC50                 | <         | 0.05 mg/l |
|    | Duration of exposure |           | 4 h       |
|    | State of aggregation | Dust      |           |
|    | Species              | rat       |           |
|    | Method               | OECD 436  |           |
|    | Source               | ECHA      |           |

### Skin corrosion/irritation

| No | Substance name       | CAS no.      | EC no.    |
|----|----------------------|--------------|-----------|
| 1  | cobalt               | 7440-48-4    | 231-158-0 |
|    | Duration of exposure | 15           | min       |
|    | Method               | OECD 439     |           |
|    | Source               | ECHA         |           |
|    | Evaluation           | non-irritant |           |

### Serious eye damage/irritation

| No | Substance name       | CAS no.      | EC no.    |
|----|----------------------|--------------|-----------|
| 1  | cobalt               | 7440-48-4    | 231-158-0 |
|    | Duration of exposure | 4            | h         |
|    | Method               | OECD 437     |           |
|    | Evaluation           | low-irritant |           |

### Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

### Reproduction toxicity

| No | Substance name            | CAS no.   | EC no.    |
|----|---------------------------|---|-----------|
| 1  | cobalt                    | 7440-48-4   | 231-158-0 |
|    | Source                    | ECHA  |           |
|    | Evaluation/classification | Based on available data, the classification criteria are met. |           |

### Carcinogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration hazard

No data available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of vapours in high concentration may cause metal fume fever and may cause damage of the central nervous system in case of repeated and prolonged exposure. Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract. Inhalation of metal-containing dusts may cause acute poisoning, leading to nausea, vomiting and abdominal pain.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish (acute)

No data available

#### Toxicity to fish (chronic)

No data available

#### Toxicity to Daphnia (acute)



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| No                   | Substance name | CAS no.   | EC no.    |
|----------------------|----------------|-----------|-----------|
| 1                    | cobalt         | 7440-48-4 | 231-158-0 |
| EC50                 | >              | 100       | mg/l      |
| Duration of exposure |                | 48        | h         |
| Species              | Daphnia magna  |           |           |
| Method               | OECD 202       |           |           |
| Source               | ECHA           |           |           |

#### Toxicity to Daphnia (chronic)

No data available

#### Toxicity to algae (acute)

No data available

#### Toxicity to algae (chronic)

No data available

#### Bacteria toxicity

No data available

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

#### Results of PBT and vPvB assessment

|                 |   |
|-----------------|---|
| PBT assessment  | The components of this product are not considered to be a PBT.  |
| vPvB assessment | The components of this product are not considered to be a vPvB. |

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

#### Other information

Do not discharge into the drains or waters and do not store on public depositories.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

|                           |  |
|---------------------------|--|
| Class                     | 9  |
| Classification code       | M7   |
| Packing group             | III  |
| Hazard identification no. | 90   |
| UN number                 | UN3077   |
| Proper shipping name      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |

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|  |                        |
|--|------------------------|
| Technical name                           | cobalt                 |
| Tunnel restriction code                  | -                      |
| Label                                    | 9                      |
| Environmentally hazardous substance mark | Symbol "fish and tree" |

## 14.2 Transport IMDG

|                       |  |
|-----------------------|--|
| Class                 | 9  |
| Packing group         | III  |
| UN number             | UN3077   |
| Proper shipping name  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Technical name        | cobalt   |
| EmS                   | F-A, S-F   |
| Label                 | 9  |
| Marine pollutant mark | Symbol "fish and tree"                             |

## 14.3 Transport ICAO-TI / IATA

|  |  |
|--|--|
| Class                                    | 9  |
| Packing group                            | III  |
| UN number                                | UN3077   |
| Proper shipping name                     | Environmentally hazardous substance, solid, n.o.s. |
| Technical name                           | cobalt   |
| Label                                    | 9  |
| Environmentally hazardous substance mark | Symbol "fish and tree"                             |

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

|  |    |
|--|----|
| This product is subject to Part I of Annex I, risk category: | E1 |
|--|----|

##### **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

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## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H400 Very toxic to aquatic life.

### Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

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Prod-ID 755594