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**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name/designation:

RAVENOL CeramiX-Pro

Article No.:

1390324

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

Use of the substance/mixture:

Lubricant

**1.3. Details of the supplier of the safety data sheet****Supplier (manufacturer/importer/only representative/downstream user/distributor):****Ravensberger Schmierstoffvertrieb GmbH**

Produktsicherheit

Jöllenbecker Str. 2

33824 Werther

Germany

**Telephone:** +49 5203 9719 0**Telefax:** +49 5203 9719 40**E-mail:** kontakt@ravenol.de**Website:** www.ravenol.de**E-mail (competent person):** sdb@ravenol.de**1.4. Emergency telephone number**

24 hr. emergency phone number, 24h: +1 872 5888271 (Contract ID: RAV)

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard statements:** none**Supplemental hazard information**

EUH210 Safety data sheet available on request.

**Precautionary statements:** none**2.3. Other hazards****Other adverse effects:**

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

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

No data available

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.



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**Following inhalation:**

Provide fresh air. Consult a doctor immediately.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

**After 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.

**Following ingestion:**

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

**Self-protection of the first aider:**

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

No known symptoms to date.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

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

Carbon dioxide (CO<sub>2</sub>)

Extinguishing powder

alcohol resistant foam

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

**Unsuitable extinguishing media:**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point

**Hazardous combustion products:**Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).

During heating or in case of fire, toxic gases is possible.

**5.3. Advice for firefighters**

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

**5.4. Additional information**

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel****Personal precautions:**

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

**Protective equipment:**

Personal protection equipment: see section 8

**Emergency procedures:**

Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

**6.1.2. For emergency responders****Personal protection equipment:**

Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.



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

**For containment:**

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

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

**For cleaning up:**

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**Other information:**

Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

### 6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8).

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

**Fire prevent measures:**

No special fire protection measures are necessary.

**Environmental precautions:**

Shafts and sewers must be protected from entry of the product.

**Advices on general occupational hygiene**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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

**Technical measures and storage conditions:**

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

**Requirements for storage rooms and vessels:**

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.

Keep/Store only in original container.

**Hints on storage assembly:**

not required

**Storage class (TRGS 510, Germany):** 10 – Combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions:**

Store in a cool dry place. Keep away from heat.

### 7.3. Specific end use(s)

**Recommendation:**

Observe technical data sheet.



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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type<br>(country of origin) | Substance name                                                   | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|-----------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LT                                      | <b>boron nitride</b><br>CAS No.: 10043-11-5<br>EC No.: 233-136-6 | ① 6 mg/m <sup>3</sup><br>⑤ F                                                                                                                                                   |
| LV                                      | <b>boron nitride</b><br>CAS No.: 10043-11-5<br>EC No.: 233-136-6 | ① 6 mg/m <sup>3</sup><br>⑤ "(F)"                                                                                                                                               |
| RU<br>from 4 May 2018                   | <b>boron nitride</b><br>CAS No.: 10043-11-5<br>EC No.: 233-136-6 | ① 6 mg/m <sup>3</sup><br>⑤ Бор нитрид Ф                                                                                                                                        |
| RU<br>from 4 May 2018                   | <b>boron nitride</b><br>CAS No.: 10043-11-5<br>EC No.: 233-136-6 | ① 6 mg/m <sup>3</sup><br>⑤ Бор нитрид гексагональный и кубический Ф                                                                                                            |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

During transfer: Eye glasses with side protection  
 Wear eye/face protection. EN 166

##### Skin protection:

Hand protection  
 Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)  
 Thickness of the glove material:  $\geq 0,4$  mm  
 Breakthrough time: 480 min  
 Breakthrough times and swelling properties of the material must be taken into consideration.  
 The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
 Tested protective gloves must be worn: EN ISO 374  
 Suitable protective clothing: Protective clothing

##### Respiratory protection:

Usually no personal respirative protection necessary.

#### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

### 8.3. Additional information

Mineral oil mist limits:  
 OSHA PEL - value 5 mg / m<sup>3</sup>, ACGIH STEL - value of 10 mg / m<sup>3</sup>

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid  
**Colour:** white

**Form:** Dispersion  
**Odour:** characteristic



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**flammability:** Yes

### Safety relevant basis data

| Parameter                                    | Value                       | at °C | ① Method<br>② Remark |
|----------------------------------------------|-----------------------------|-------|----------------------|
| pH                                           | <i>not applicable</i>       |       |                      |
| Melting point                                | <i>No data available</i>    |       |                      |
| Freezing point                               | -24 °C                      |       |                      |
| Initial boiling point and boiling range      | <i>No data available</i>    |       |                      |
| Flash point                                  | 246 °C                      |       |                      |
| Evaporation rate                             | <i>No data available</i>    |       |                      |
| Auto-ignition temperature                    | <i>No data available</i>    |       |                      |
| Upper/lower flammability or explosive limits | <i>No data available</i>    |       |                      |
| Vapour pressure                              | <i>No data available</i>    |       |                      |
| Vapour density                               | <i>No data available</i>    |       |                      |
| Density                                      | 855 - 865 kg/m <sup>3</sup> | 15 °C |                      |
| Bulk density                                 | <i>not applicable</i>       |       |                      |
| Water solubility                             | practically insoluble       |       |                      |
| Dynamic viscosity                            | <i>No data available</i>    |       |                      |
| Kinematic viscosity                          | 70 - 80 mm <sup>2</sup> /s  | 40 °C |                      |

### 9.2. Other information

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No known hazardous reactions.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

### 10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

### 10.6. Hazardous decomposition products

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>),  
 During heating or in case of fire, toxic gases is possible.

### Further information

No information available.

## SECTION 11: Toxicological information

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

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

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

#### Serious eye damage/irritation:

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

#### Respiratory or skin sensitisation:

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



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**Germ cell mutagenicity:**

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

**Carcinogenicity:**

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

**Reproductive toxicity:**

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

**STOT-single exposure:**

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

**STOT-repeated exposure:**

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

**Aspiration hazard:**

Observe risk of aspiration if vomiting occurs.

For viscosity data, see section 9.

**Additional information:**

Frequently or prolonged contact with skin may cause dermal irritation.

**11.2. Information on other hazards**

**Endocrine disrupting properties:**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information:**

No data available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Assessment/classification:**

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

**Additional ecotoxicological information:**

Do not allow uncontrolled discharge of product into the environment.

**12.2. Persistence and degradability**

**Biodegradation:**

Not readily biodegradable (according to OECD criteria)

**12.3. Bioaccumulative potential**

**Accumulation / Evaluation:**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

This product does not contain any substance that has endocrine disrupting properties towards non-target organisms, as no ingredient meets the criteria.

**12.7. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose of waste according to applicable legislation.

**Waste treatment options**

**Appropriate disposal / Product:**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

**Appropriate disposal / Package:**

Non-contaminated packages may be recycled.



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### 13.2. Additional information

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

## SECTION 14: Transport information

| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       | Air transport (ICAO-TI / IATA-DGR)                         |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                        |                                                            |                                                            |                                                            |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.2. UN proper shipping name</b>                       |                                                            |                                                            |                                                            |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.3. Transport hazard class(es)</b>                    |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |
| <b>14.4. Packing group</b>                                 |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |
| <b>14.5. Environmental hazards</b>                         |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |
| <b>14.6. Special precautions for user</b>                  |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |

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

not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

This product is not assigned to a hazard category.

Safety data sheet available for professional user on request.

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 0 weight-%

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung (12. BImSchV)

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

##### Remark:

To follow: 5.2.5

##### Water hazard class

##### WGK:

1 - slightly hazardous to water

##### Source:

Self-classification (mixture; calculation rule).

Identification number 436

##### Technische Regeln für Gefahrstoffe

TRGS 510

TRGS 500

##### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868

Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

##### Other regulations, restrictions and prohibition regulations

Altöl-Verordnung (AltöIV)

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 **[DK] National regulations**
**Other regulations, restrictions and prohibition regulations**

Lister over stoffer og processer, der anses for at være kræftfremkaldende

 **[FR] National regulations**
**Other regulations, restrictions and prohibition regulations**

Tableaux de maladies professionnelles

Nomenclature des installations classées pour la protection de l'environnement

 **[NL] National regulations**
**Other regulations, restrictions and prohibition regulations**

Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW

Algemeene beoordelingsmethodiek Water (ABM)

Nederlandse emissierichtlijn (NeR)

 **[CH] National regulations**
**Other regulations, restrictions and prohibition regulations**

Mengenschwelle (Schweiz - StFV)

Gefahrencode

Brandverhütung, BVD (Schweiz)

**15.2. Chemical Safety Assessment**

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

**15.3. Additional information**

No data available.

**SECTION 16: Other information****16.1. Indication of changes**

Not applicable

**16.2. Abbreviations and acronyms**

|       |                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists                                       |
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| CAS   | Chemical Abstracts Service                                                                      |
| CLP   | Classification, Labelling and Packaging                                                         |
| DNEL  | derived no-effect level                                                                         |
| ICAO  | International Civil Aviation Organization                                                       |
| IMDG  | International Maritime Dangerous Goods                                                          |
| IMO   | International Maritime Organization                                                             |
| NFPA  | National Fire Protection Association                                                            |
| OECD  | Organisation for Economic Cooperation and Development                                           |
| OSHA  | Occupational Safety & Health Administration                                                     |
| PBT   | persistent and bioaccumulative and toxic                                                        |
| PEL   | Permissible Exposure Limit                                                                      |
| PNEC  | Predicted No Effect Concentration                                                               |
| REACH | Registration, Evaluation and Authorization of Chemicals                                         |
| RID   | Dangerous goods regulations for transport by rail                                               |
| STEL  | Short-term Exposure Limit                                                                       |
| TRGS  | Technische Regeln für Gefahrstoffe                                                              |
| UN    | United Nations                                                                                  |
| VOC   | Volatile organic compounds                                                                      |

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**16.3. Key literature references and sources for data**

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006

Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory

European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)



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Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances  
Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

No data available

#### **16.6. Training advice**

No data available

#### **16.7. Additional information**

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