

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Revision Number 3

EGHS / English

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name** KonductoMet  
**Product Code(s)** 20-3375-016, 20-3375-400  
**(M)SDS Number** 1341068\_E  
**Chemical name**

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

**Recommended Use** Laboratory Use Only.  
**Uses advised against** No information available.

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

**Manufacturer** ITW Test & Measurement GmbH  
**Manufacturer Address** Boschstraße 10  
73734 Esslingen am Neckar / GERMANY  
www.buehler-met.de www.buehler.fr www.buehler.co.uk  
**Phone number** +49 (0) 711 4904690-0  
**E-mail Address** lab.eu@buehler.com

### 1.4. Emergency telephone number

Global Access Code: 334545  
Americas: +1 760 476 3962 Europe: +1 760 476 3961  
Middle East/Africa: +1 760 476 3959 Asia Pacific: +1 760 476 3960  
UK: +44 8 08 189 0979

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

|  |                      |
|--|----------------------|
| Skin corrosion/irritation                          | Category 2 - (H315)  |
| Serious eye damage/eye irritation                  | Category 2 - (H319)  |
| Skin sensitization                                 | Category 1 - (H317)  |
| Germ cell mutagenicity                             | Category 2 - (H341)  |
| Carcinogenicity                                    | Category 1A - (H350) |
| Specific target organ toxicity (repeated exposure) | Category 2 - (H373)  |

**2.2. Label elements****Signal word****Danger****Hazard Statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

**Precautionary Statements - EU (§28, 1272/2008)**

P260 - Do not breathe dust

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P314 - Get medical advice/attention if you feel unwell

P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**2.3. Other hazards**

No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

| Chemical name               | EC No | CAS No    | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|-----------------------------|-------|-----------|----------|---|---------------------------|
| Phenol-formaldehyde polymer | -     | 9003-35-4 | 30 - 40% | No data available   |                           |

|                      |           |            |          |   |
|----------------------|-----------|------------|----------|---|
| Graphite             | 231-955-3 | 7782-42-5  | 30 - 40% | No data available   |
| Glass, oxide         | 266-046-0 | 65997-17-3 | 20 - 30% | No data available   |
| Methenamine          | 202-905-8 | 100-97-0   | 0 - 10%  | Flam. Sol. 2 (H228)<br>Skin Sens. 1 (H317)  |
| Quartz               | 238-878-4 | 14808-60-7 | 0 - 3%   | STOT RE 1 (H372)  |
| C.I. Solvent Black 7 | -         | 8005-02-5  | 0 - 3%   | No data available   |
| Phenol               | Present   | 108-95-2   | < 1%     | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Skin Corr. 1B (H314)<br>STOT RE 2 (H373)<br>Muta. 2 (H341)<br>Acute Tox. 3 (H331) |

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name               | CAS No     | SVHC candidates |
|-----------------------------|------------|-----------------|
| Phenol-formaldehyde polymer | 9003-35-4  | -               |
| Graphite                    | 7782-42-5  | -               |
| Glass, oxide                | 65997-17-3 | -               |
| Methenamine                 | 100-97-0   | -               |
| Quartz                      | 14808-60-7 | -               |
| C.I. Solvent Black 7        | 8005-02-5  | -               |
| Phenol                      | 108-95-2   | -               |

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.

#### Skin contact

Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction.

#### Eye contact

Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.

#### Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

#### Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid

contact with skin, eyes or clothing. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Itching. Rashes. Hives. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

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

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

### **Section 5: FIRE FIGHTING MEASURES**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

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

##### **Specific hazards arising from the chemical**

Product is or contains a sensitizer. May cause sensitization by skin contact.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **Section 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Do not breathe dust. Avoid generation of dust. Handle product only in closed system or provide appropriate exhaust ventilation.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure Limits

| Chemical name         | EU  | United Kingdom  | France   | Spain   | Germany                                      |
|-----------------------|---|---|--|---|--|
| Graphite<br>7782-42-5 | -   | STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup>  | -  |
| Quartz<br>14808-60-7  | -   | STEL: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.05 mg/m <sup>3</sup>   | -  |
| Phenol<br>108-95-2    | S*<br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA 7.8 mg/m <sup>3</sup><br>TWA 2 ppm | STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 7.8 mg/m <sup>3</sup><br>Sk*                      | TWA: 2 ppm<br>TWA: 7.8 mg/m <sup>3</sup><br>*<br>STEL: 4 ppm<br>STEL: 15.6 mg/m <sup>3</sup> | vía dérmica*<br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>S* |

| Chemical name              | Italy   | Portugal   | Netherlands  | Finland   | Denmark   |
|----------------------------|---|--|--|---|---|
| Graphite<br>7782-42-5      | -   | TWA: 2 mg/m <sup>3</sup>   | -  | TWA: 2 mg/m <sup>3</sup>  | TWA: 2.5 mg/m <sup>3</sup>  |
| Glass, oxide<br>65997-17-3 | -   | TWA: 1 fiber/cm <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                                   | -  | TWA: 5 mg/m <sup>3</sup><br>TWA: 1 fiber/cm <sup>3</sup>  | -   |
| Quartz<br>14808-60-7       | -   | TWA: 0.025<br>mg/m <sup>3</sup>  | TWA: 0.075<br>mg/m <sup>3</sup>  | TWA: 0.05 mg/m <sup>3</sup>   | TWA: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup>  |
| Phenol<br>108-95-2         | TWA: 2 ppm<br>TWA: 7.8 mg/m <sup>3</sup><br>pelle*                                      | STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup>        | H*<br>TWA: 8 mg/m <sup>3</sup>   | TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>iho*   | TWA: 1 ppm<br>TWA: 4 mg/m <sup>3</sup><br>H*  |
| Chemical name              | Austria   | Switzerland  | Poland   | Norway  | Ireland   |
| Graphite<br>7782-42-5      | STEL 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                                   | TWA: 2.5 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                                     | TWA: 4.0 mg/m <sup>3</sup><br>TWA: 1.0 mg/m <sup>3</sup><br>TWA: 6.0 mg/m <sup>3</sup>                             | TWA: 5 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>STEL: 4 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup><br>STEL: 8 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup> |
| Methenamine<br>100-97-0    | -   | -  | TWA: 4 mg/m <sup>3</sup>   | TWA: 3 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>   | -   |
| Quartz<br>14808-60-7       | TWA: 0.15 mg/m <sup>3</sup>   | TWA: 0.15 mg/m <sup>3</sup>  | TWA: 2 mg/m <sup>3</sup><br>TWA: 0.3 mg/m <sup>3</sup><br>TWA: 4.0 mg/m <sup>3</sup><br>TWA: 1.0 mg/m <sup>3</sup> | TWA: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.9 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup>  | TWA: 0.1 mg/m <sup>3</sup>  |
| Phenol<br>108-95-2         | H*<br>STEL 4 ppm<br>STEL 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup> | H*<br>STEL: 5 ppm<br>STEL: 19 mg/m <sup>3</sup><br>TWA: 5 ppm<br>TWA: 19 mg/m <sup>3</sup> | P*<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 7.8 mg/m <sup>3</sup>   | TWA: 1 ppm<br>TWA: 4 mg/m <sup>3</sup><br>H*<br>STEL: 3 ppm<br>STEL: 12 mg/m <sup>3</sup>   | TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>Sk*                        |

### Biological occupational exposure limits

| Chemical name      | European Union | United Kingdom | France                         | Spain   | Germany                |
|--------------------|----------------|----------------|--------------------------------|---------|------------------------|
| Phenol<br>108-95-2 | -              | -              | Urine : 250 mg/g<br>creatinine | 120     | 120 mg/g               |
| Chemical name      | Italy          | Portugal       | Netherlands                    | Finland | Denmark                |
| Phenol<br>108-95-2 | -              | -              | -                              | 1.3     | -                      |
| Chemical name      | Austria        | Switzerland    | Poland                         | Norway  | Ireland                |
| Phenol<br>108-95-2 | -              | 250            | -                              | -       | 120 mg/g<br>creatinine |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2. Exposure controls

#### Personal protective equipment

##### Eye/face protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur,

|  |   |
|--|---|
|  | wear safety glasses with side-shields.  |
| <b>Hand Protection</b>                 | Wear suitable gloves. Impervious gloves.  |
| <b>Skin and body protection</b>        | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. |
| <b>Environmental exposure controls</b> | No information available.   |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Granular                 |
| <b>Appearance</b>     | Black                    |
| <b>Odor</b>           | Characteristic           |
| <b>Color</b>          | No information available |
| <b>Odor Threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks</u> | <u>Method</u> |
|--|-------------------|----------------|---------------|
| pH                                     | No data available | None known     |               |
| Melting / freezing point               | No data available | None known     |               |
| Boiling point / boiling range          | No data available | None known     |               |
| Flash Point                            | No data available | None known     |               |
| Evaporation Rate                       | No data available | None known     |               |
| Flammability (solid, gas)              | No data available | None known     |               |
| Flammability Limit in Air              |                   | None known     |               |
| Upper flammability limit               | No data available |                |               |
| Lower flammability limit               | No data available |                |               |
| Vapor pressure                         | No data available | None known     |               |
| Vapor density                          | No data available | None known     |               |
| Relative density                       | No data available | None known     |               |
| Water Solubility                       | Negligible        |                |               |
| Solubility(ies)                        | No data available | None known     |               |
| Partition coefficient: n-octanol/water | No data available | None known     |               |
| Autoignition temperature               | No data available | None known     |               |
| Decomposition temperature              | No data available | None known     |               |
| Kinematic viscosity                    | No data available | None known     |               |
| Viscosity                              | No data available | None known     |               |

### 9.2. Other information

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Softening Point</b>            | No information available |
| <b>Molecular Weight</b>           | No information available |
| <b>VOC Content (%)</b>            | Not applicable           |
| <b>Liquid Density</b>             | No information available |
| <b>Bulk Density</b>               | No information available |
| <b>Particle Size</b>              | No information available |
| <b>Particle Size Distribution</b> | No information available |

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion Data

|                                  |       |
|----------------------------------|-------|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge  | None. |

**10.3. Possibility of hazardous reactions**

|   |                               |
|---|-------------------------------|
| <b>Possibility of Hazardous Reactions</b> | None under normal processing. |
|---|-------------------------------|

**10.4. Conditions to avoid**

Excessive heat.

**10.5. Incompatible materials**

Strong acids, Strong bases, Strong oxidizing agents.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Toxic by inhalation. (based on components).  |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.   |
| <b>Skin contact</b> | May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. Toxic in contact with skin. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).  |

**Information on toxicological effects**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing. Difficulty in breathing. |
|-----------------|---|

**Numerical measures of toxicity****Acute Toxicity**



The following values are calculated based on chapter 3.1 of the GHS document

|                               |              |
|-------------------------------|--------------|
| ATEmix (oral)                 | 677.00 mg/kg |
| ATEmix (dermal)               | 630.00 mg/kg |
| ATEmix (inhalation-gas)       | 700.00 ppm   |
| ATEmix (inhalation-dust/mist) | 0.50 mg/L    |
| ATEmix (inhalation-vapor)     | 3.00 mg/L    |

#### Unknown acute toxicity

- 99 % of the mixture consists of ingredient(s) of unknown toxicity
- 90 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 99 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

| Chemical name               | Oral LD50                               | Dermal LD50            | Inhalation LC50                     |
|-----------------------------|---|------------------------|-------------------------------------|
| Phenol-formaldehyde polymer | > 5 g/kg ( Rat )                        | > 2 g/kg ( Rat )       | -                                   |
| Methenamine                 | = 9200 mg/kg ( Rat )                    | -                      | -                                   |
| Quartz                      | = 500 mg/kg ( Rat )                     | -                      | -                                   |
| Phenol                      | = 317 mg/kg ( Rat ) = 340 mg/kg ( Rat ) | = 630 mg/kg ( Rabbit ) | = 316 mg/m <sup>3</sup> ( Rat ) 4 h |

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Irritating to eyes.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

| Chemical name | EU - Annex VI Mutagens |
|---------------|------------------------|
| Phenol        | Muta. 2                |

**Carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity****Ecotoxicity**

| Chemical name | Toxicity to Algae   | Toxicity to Fish   | Toxicity to Microorganisms   | Daphnia Magna (Water Flea)                            |
|---------------|---|--|--|---|
| Methenamine   | -   | 96h LC50: 44600 - 55600 mg/L<br>(Pimephales promelas)  | -  | 48h EC50: 29868 - 43390 mg/L                          |
| Phenol        | 96h EC50: = 46.42 mg/L<br>(Pseudokirchneriella subcapitata) 96h EC50: 0.0188 - 0.1044 mg/L<br>(Pseudokirchneriella subcapitata) 72h EC50: 187 - 279 mg/L<br>(Desmodesmus subspicatus) | 96h LC50: 11.9 - 50.5 mg/L (Pimephales promelas) 96h LC50: 20.5 - 25.6 mg/L (Pimephales promelas) 96h LC50: = 32 mg/L (Pimephales promelas) 96h LC50: 5.449 - 6.789 mg/L (Oncorhynchus mykiss) 96h LC50: 7.5 - 14 mg/L (Oncorhynchus mykiss) 96h LC50: 4.23 - 7.49 mg/L (Oncorhynchus mykiss) 96h LC50: 5.0 - 12.0 mg/L (Oncorhynchus mykiss) 96h LC50: 11.9 - 25.3 mg/L (Lepomis macrochirus) 96h LC50: = 11.5 mg/L (Lepomis macrochirus) 96h LC50: = 13.5 mg/L (Lepomis macrochirus) 96h LC50: 34.09 - 47.64 mg/L (Poecilia reticulata) 96h LC50: = 31 mg/L (Poecilia reticulata) 96h LC50: = 27.8 mg/L (Brachydanio rerio) 96h LC50: = 0.00175 mg/L (Cyprinus carpio) 96h LC50: 33.9 - 43.3 mg/L (Oryzias latipes) 96h LC50: 23.4 - 36.6 mg/L (Oryzias latipes) | EC50 21 - 36 mg/L 30 min<br>EC50 = 23.28 mg/L 5 min<br>EC50 = 25.61 mg/L 15 min<br>EC50 = 28.8 mg/L 5 min<br>EC50 = 31.6 mg/L 15 min | 48h EC50: 4.24 - 10.7 mg/L 48h EC50: 10.2 - 15.5 mg/L |

**12.2. Persistence and degradability**

**Persistence and Degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation**

| Chemical name | Log Pow |
|---------------|---------|
| Phenol        | 1.5     |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

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

**PBT and vPvB assessment** No information available.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------|
| Graphite      |                         |
| Glass, oxide  | Not applicable          |
| Methenamine   |                         |
| Phenol        | Not applicable          |

**12.6. Other adverse effects**

**Other adverse effects** No information available.

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** No information available.

## Section 14: TRANSPORT INFORMATION

|  |                          |
|--|--------------------------|
| <b>IMDG/IMO</b>  | NOT REGULATED            |
| <b>14.1 UN-No.</b>   | Not Regulated            |
| <b>14.2 Proper Shipping Name</b>   | NOT REGULATED            |
| <b>14.3 Hazard Class</b>   | NOT REGULATED            |
| <b>14.4 Packing Group</b>  | NOT REGULATED            |
| <b>14.5 Marine Pollutant</b>   | Not applicable           |
| <b>Environmental hazard</b>  | Yes                      |
| <b>14.6 Special Provisions</b>   | None                     |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | No information available |

|                                  |               |
|----------------------------------|---------------|
| <b>RID</b>                       | NOT REGULATED |
| <b>14.1 UN-No.</b>               | NOT REGULATED |
| <b>14.2 Proper Shipping Name</b> | NOT REGULATED |
| <b>14.3 Hazard Class</b>         | NOT REGULATED |
| <b>14.4 Packing Group</b>        | NOT REGULATED |

14.5 Environmental hazard Yes  
 14.6 Special Provisions None

ADR NOT REGULATED  
 14.1 UN-No. NOT REGULATED  
 14.2 Proper Shipping Name NOT REGULATED  
 14.3 Hazard Class NOT REGULATED  
 14.4 Packing Group NOT REGULATED  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions None

IATA NOT REGULATED  
 14.1 UN-No. NOT REGULATED  
 14.2 Proper Shipping Name NON REGULATED  
 14.3 Hazard Class NOT REGULATED  
 14.4 Packing Group NOT REGULATED  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions None

## Section 14: TRANSPORT INFORMATION

IMDG/IMO NOT REGULATED  
 14.1 UN-No. Not Regulated  
 14.2 Proper Shipping Name NOT REGULATED  
 14.3 Hazard Class NOT REGULATED  
 14.4 Packing Group NOT REGULATED  
 14.5 Marine Pollutant Not applicable  
     Environmental hazard Yes  
 14.6 Special Provisions None  
 14.7 Transport in bulk No information available  
 according to Annex II of  
 MARPOL and the IBC Code

RID NOT REGULATED  
 14.1 UN-No. NOT REGULATED  
 14.2 Proper Shipping Name NOT REGULATED  
 14.3 Hazard Class NOT REGULATED  
 14.4 Packing Group NOT REGULATED  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions None

ADR NOT REGULATED  
 14.1 UN-No. NOT REGULATED  
 14.2 Proper Shipping Name NOT REGULATED  
 14.3 Hazard Class NOT REGULATED  
 14.4 Packing Group NOT REGULATED  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions None

IATA NOT REGULATED  
 14.1 UN-No. NOT REGULATED  
 14.2 Proper Shipping Name NON REGULATED

|                           |               |
|---------------------------|---------------|
| 14.3 Hazard Class         | NOT REGULATED |
| 14.4 Packing Group        | NOT REGULATED |
| 14.5 Environmental hazard | Yes           |
| 14.6 Special Provisions   | None          |

## Section 15: REGULATORY INFORMATION

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name                            | French RG number | Title |
|--|------------------|-------|
| Phenol-formaldehyde polymer<br>9003-35-4 | RG 43            | -     |
| Graphite<br>7782-42-5                    | RG 16<br>RG 25   | -     |
| Glass, oxide<br>65997-17-3               | RG 42            | -     |
| Quartz<br>14808-60-7                     | RG 25            | -     |
| Phenol<br>108-95-2                       | RG 14            | -     |

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### Persistent Organic Pollutants

Not applicable.

#### Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

#### International Inventories

|                      |   |
|----------------------|---|
| <b>TSCA</b>          | Contact supplier for inventory compliance status. |
| <b>DSL/NDSL</b>      | Contact supplier for inventory compliance status. |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>IECSC</b>         | Contact supplier for inventory compliance status. |

**KECL** Contact supplier for inventory compliance status.  
**PICCS** Contact supplier for inventory compliance status.  
**AICS** Contact supplier for inventory compliance status.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

No information available.

**Section 16: OTHER INFORMATION**
**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under sections 2 and 3**

H228 - Flammable solid  
H317 - May cause an allergic skin reaction  
H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H373 - May cause damage to organs through prolonged or repeated exposure if inhaled  
H341 - Suspected of causing genetic defects if inhaled  
H331 - Toxic if inhaled  
H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | -    | Skin designation                 |

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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**This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.**

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or**

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**quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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**End of Safety Data Sheet**