

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2012

Version number 62

Revision: 26.01.2012

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

- **Product identifier**

- **Trade name:** Certanium 100 4mm 22010

- **Article number:** 22010

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

- **Application of the substance / the preparation** Metal-working product

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

KENT

Pitreavie Crescent

Pitreavie Business Park

Dunfermline

Fife

KY11 8UQ

Tel: 01383 737393

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Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

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- **Emergency telephone number:**

Tel: 01383 737393 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

## 2 Hazards identification

- **Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **Label elements**

- **Labelling according to EU guidelines:**

Observe the normal safety regulations when handling chemicals

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

- **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

|                                      |                           |  |       |
|--------------------------------------|---------------------------|--|-------|
| CAS: 9004-34-6<br>EINECS: 232-674-9  | Cellulose                 | substance with a Community workplace exposure limit      | 5-15% |
| CAS: 1344-09-8<br>EINECS: 215-687-4  | Silicic acid, sodium salt | ☒ Xi R36/38<br>☒ Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 5-15% |
| CAS: 7439-96-5<br>EINECS: 231-105-1  | manganese                 | ☒ Xn R48   | 1-11% |
| CAS: 13463-67-7<br>EINECS: 236-675-5 | titanium dioxide          | substance with a Community workplace exposure limit      | 1-11% |

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 CAS: 1309-37-1  
 EINECS: 215-168-2

diiron trioxide

substance with a Community workplace exposure limit 1-11%

## 4 First aid measures

### · Description of first aid measures

· **General information** No special measures required.

· **After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

### · After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

### · Information for doctor

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

## 5 Firefighting measures

### · Extinguishing media

### · Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.

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

Formation of toxic gases is possible during heating or in case of fire.

### · Advice for firefighters

### · Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

## 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· **Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.

### · Methods and material for containment and cleaning up:

Collect mechanically.

Dispose of contaminated material as waste according to item 13.

### · Reference to other sections

See Section 8 for information on personal protection equipment.

## 7 Handling and storage

### · Handling

### · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

· **Information about protection against explosions and fires:** No special measures required.

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

### · Storage

· **Requirements to be met by storerooms and containers:** Store in cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

· **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**9004-34-6 Cellulose**

|     |   |
|-----|---|
| WEL | Short-term value: 20* mg/m <sup>3</sup><br>Long-term value: 10* 4** mg/m <sup>3</sup><br>*inhalable dust **respirable |
|-----|---|

**13463-67-7 titanium dioxide**

|     |   |
|-----|---|
| WEL | Long-term value: 10* 4** mg/m <sup>3</sup><br>*total inhalable **respirable |
|-----|---|

**1309-37-1 diiron trioxide**

|     |   |
|-----|---|
| WEL | Short-term value: 10 mg/m <sup>3</sup><br>Long-term value: 5 mg/m <sup>3</sup><br>(as Fe) |
|-----|---|

· **Additional information:**

Overexposure to welding fumes may result in dizziness, nausea or dryness or irritation of nose, throat and eyes. Chronic excess welding fumes above OES or OEL may be hazardous. Prolonged and repeated inhalation may be harmful to respiratory system. The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

· **Breathing equipment:** Not required.

· **Protection of hands:**

Welders protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Welders face shield and coloured absorbing lenses

Safety glasses

· **Body protection:** Heat-resistant protective clothing

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|                |                                    |
|----------------|------------------------------------|
| <b>Form:</b>   | Solid.                             |
| <b>Colour:</b> | According to product specification |
| <b>Odour:</b>  | Characteristic                     |

· **Change in condition**

**Melting point/Melting range:** 1000-1500°C

**Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

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- |  |  |
|--|--|
| · <b>Density at 20°C</b>                         | 5-8 g/cm <sup>3</sup>                      |
| · <b>Solubility in / Miscibility with Water:</b> | Insoluble                                  |
| · <b>Other information</b>                       | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acid
- **Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 13463-67-7 titanium dioxide

|            |           |                       |
|------------|-----------|-----------------------|
| Oral       | LD50      | >20000 mg/kg (rat)    |
| Dermal     | LD50      | >10000 mg/kg (rabbit) |
| Inhalative | LC50(4 h) | >6.82 mg/l (rat)      |

### 1309-37-1 diiron trioxide

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | >5000 mg/kg (rat) |
|------|------|-------------------|

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>UN proper shipping name</b>   | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>Transport hazard class(es)</b>  | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   | Void            |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>Environmental hazards:</b>  | No              |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | -               |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Generally not hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

R36/38 Irritating to eyes and skin.

R48 Danger of serious damage to health by prolonged exposure.

- **Department issuing data specification sheet:** Environment protection department.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Data compared to the previous version altered.** \*