

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 17.02.2005

### 1 Identification of substance:

· **Product details:**

· **Trade name:** Pool Power pH plus

· **Application of the substance / the preparation** Chemicals for various applications

· **Manufacturer/Supplier:**

Melspring International BV  
Jansbuitensingel 20, P.O. Box 143  
NL-6800 AC Arnhem

Phone: +31-(0)26-44 51 251

Fax: +31-(0)26-44 25 093

· **Informing department:** Sales/ Technics

· **Emergency information:**

National (Dutch) Toxic Information Center  
Phone: ++31-302748888

### 2 Composition/Data on components:

· **Chemical characterization:**

· **CAS No. Designation:**

497-19-8 sodium carbonate

· **Identification number(s):**

· **EINECS Number:** 207-838-8

· **EC Number:** 011-005-00-2

### 3 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

R 36 Irritating to eyes.

### 4 First aid measures

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

· **After inhalation** Seek medical treatment in case of complaints.

· **After skin contact** Rinse with warm water.

· **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.

Seek medical treatment.

### 5 Fire fighting measures

· **Suitable extinguishing agents**

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

· **For safety reasons unsuitable extinguishing agents** none

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- **Special hazards caused by the material, its products of combustion or flue gases:**  
Carbon monoxide and carbon dioxide
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Avoid skin and eye contact.  
Ensure adequate ventilation.  
Avoid causing dust.  
Avoid breathing dust.  
Keep people at a distance and stay on the windward side.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Collect mechanically.  
Dispose of the material collected according to regulations.
- **Additional information:** See Section 8 for information on personal protection equipment.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
Make sure that all applicable workplace limits are observed.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Do not breathe dust.  
Avoid skin and eye contact.
- **Information about protection against explosions and fires:** The product is not flammable.
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:**  
Protect from humidity and keep away from water.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**  
Observe all workplace limits for dust:  
OEL total dust: 10 mg/m<sup>3</sup>  
OEL respirable dust: 3 mg/m<sup>3</sup>
- **Additional information:** The lists that were valid during the compilation were used as basis.

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- **Personal protective equipment**
- **General protective and hygienic measures**  
 Avoid contact with the eyes and skin.  
 Use skin protection cream for preventive skin protection.  
 Do not breathe dust.
- **Breathing equipment:**  
 If all workplace limits are observed and good ventilation is ensured,  
 no special precautions necessary.  
 Use breathing protection in case of dust formation.  
 Dust proof mask - particle filter mask
- **Protection of hands:**  
 Protective gloves  
 To avoid skin problems reduce the wearing of gloves to the required minimum.
- **Material of gloves**  
 Rubber gloves  
 PVC gloves  
 Butyl rubber, BR  
 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.
- **Eye protection:** Tightly sealed safety glasses

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	crystalline powder
<b>Colour:</b>	white
<b>Smell:</b>	odourless

#### · Change in condition

<b>Melting point/Melting range:</b>	854°C
<b>Boiling point/Boiling range:</b>	not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** Product is not inflammable.

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

· **Density at 20°C** 2.533 g/cm<sup>3</sup>

· **Settled apparent density at 20°C** 500-600 kg/m<sup>3</sup>

#### · Solubility in / Miscibility with

**Water at 20°C:** 212 g/l

· **pH-value at 20°C:** 11.5

### 10 Stability and reactivity

#### · Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

· **Materials to be avoided:** Strong acids

· **Dangerous reactions** Reacts with acids under vigorous gas release. Danger of splashing of acid.

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· *Dangerous products of decomposition: Carbon monoxide and carbon dioxide*

### 11 Toxicological information

· *Acute toxicity:*· *LD/LC50 values that are relevant for classification:*

497-19-8 sodium carbonate

Oral LD50 4000 mg/kg (rat)

· *Primary irritant effect:*· *on the skin: Longer lasting and/or repeated skin contact may cause irritation.*· *on the eye: Irritant effect*· *Sensitization: No sensitizing effect known.*

### 12 Ecological information:

· *Behaviour in environmental systems:*· *Mobility and bioaccumulation potential: not determined*· *Ecotoxicological effects:*· *Aquatic toxicity: not determined*· *General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water.*

### 13 Disposal considerations

· *Product:*· *Recommendation**Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**Disposal must be made according to official regulations.*· *European waste catalogue**Waste disposal key numbers from EWC have to be assigned depending on origin and processing.*· *Uncleaned packagings:*· *Recommendation: Disposal must be made according to official regulations.*

### 14 Transport information

· *Land transport ADR/RID (cross-border)*· *ADR/RID Class: -*· *Maritime transport IMDG/GGVSea:*· *IMDG/GGVSea Class: -*· *Air transport ICAO-TI and IATA-DGR:*· *ICAO/IATA Class: -*· *Transport/Additional information: Not dangerous according to the above specifications.*

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### 15 Regulatory information

· **Designation according to EC guidelines:**  
*The product has been classified/labelled in accordance with EC Directives / relevant national laws.*

· **Code letter and hazard designation of product:**



*Xi Irritant*

· **Risk phrases:**

*36 Irritating to eyes.*

· **Safety phrases:**

*2 Keep out of the reach of children.*

*22 Do not breathe dust.*

*26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

· **National regulations**

· **Information about limitation of use:**

*Employment restrictions concerning young persons must be observed.*

· **Decree to be applied in case of technical fault: -**

· **Water hazard class:** *Water hazard class 1 (Assessment by list): slightly hazardous for water.*

### 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.*

· **Department issuing data specification sheet:**

*C.S.B. GmbH Phone: ++49-2151 - 652086-0*

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· **Contact:**