

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 10.02.2012



Version number 2

Revision: 10.02.2012

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

- **Date of issue:** 21.10.1999
- **Product identifier**
- **Trade name:** Melpool pH+
- **CAS Number:**  
497-19-8
- **EC number:**  
207-838-8
- **Index number:**  
011-005-00-2
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Chemicals for various applications
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
Melspring International B.V.  
Arnhemsestraatweg 8  
NL-6881 NG Velp  
Phone: +31 (0) 26 - 38420 - 00  
Fax: +31 (0) 26 - 38420 - 11
- **E-mail address of the competent person responsible for the Safety Data Sheet:** [sdb@csb-online.de](mailto:sdb@csb-online.de)
- **Informing department:** Sales / Technics
- **Emergency telephone number:**  
National (Dutch) Toxic Information Center  
Phone: ++31-302748888  
As above or next toxicological information centre

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  GHS07  
 Eye Irrit. 2 H319 Causes serious eye irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  Xi; Irritant  
 R36: Irritating to eyes.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.
- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read label before use.
  - P280 Wear eye/face protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 If eye irritation persists: Get medical advice/attention.

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- P401* Store in accordance with local/regional/national/international regulations.
- P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Designation:**  
497-19-8 sodium carbonate
- **Identification number(s):**
- **EC number:** 207-838-8
- **Index number:** 011-005-00-2

### 4 First aid measures

- **Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:**  
Rinse with warm water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult doctor.  
Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:**  
Do not induce vomiting!  
Rinse out mouth and then drink plenty of water.  
Seek medical treatment.
- **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**  
Carbon dioxide (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** Water with a full water jet.
- **Special hazards arising from the substance or mixture**  
Can be released in case of fire:  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Cool endangered containers with water spray jet.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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If without risk possible, move drums with material away from dangerous area.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
 Avoid contact with skin and eyes.  
 Ensure adequate ventilation.  
 Avoid causing dust.  
 Do not breathe dust.  
 Keep people at a distance and stay on the windward side.
- **Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **Methods and material for containment and cleaning up:**  
 Ensure adequate ventilation.  
 Collect mechanically.  
 Dispose of the material collected according to regulations.
- **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.  
 Store in cool, dry place in tightly closed containers.  
 Keep away from heat and direct sunlight.  
 Open and handle container with care.  
 Make sure that all applicable workplace limits are observed.  
 Prevent formation of dust.  
 Do not breathe dust.  
 Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** The product is not flammable.
- **Conditions for safe storage, including any incompatibilities**
- **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:**  
 Store away from foodstuffs.  
 Store away from oxidizers.
- **Further information about storage conditions:**  
 Protect from humidity and keep away from water.  
 Protect from heat and direct sunlight.  
 Caution when reopening containers with broken seal.  
 Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:**  
 Observe all workplace limits for dust.
- **Additional information:** The lists that were valid during the compilation were used as basis.

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- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
 Keep away from foodstuffs, beverages and food.  
 Do not eat, drink or smoke while working.  
 Avoid contact with the eyes and skin.  
 Use skin protection cream for preventive skin protection.  
 Do not breathe dust.  
 Wash hands during breaks and at the end of the work.
- **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

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	crystalline powder
Colour:	white
Smell:	odourless
- **pH-value at 20°C:** 11.5
- **Change in condition**

Melting point/Melting range:	854°C
Boiling point/Boiling range:	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>
- **Bulk density at 20°C:** 500 - 600 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**

Water at 20°C:	212 g/l
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- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.

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- **Possibility of hazardous reactions**  
Reacts with acids under vigorous gas release. Danger of splashing of acid.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong acids
- **Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
- |   |      |                  |
|---|------|------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                  |
| 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

- **Toxicity**
- **Aquatic toxicity:** not determined
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** not determined
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Assessment by list): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **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

- |                                  |      |
|----------------------------------|------|
| · <b>UN-Number</b>               |      |
| · <b>ADR, IMDG, IATA</b>         | Void |
| · <b>UN proper shipping name</b> |      |
| · <b>ADR, IMDG, IATA</b>         | Void |

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· <b>Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <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>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	-

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.
- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read label before use.
  - P280 Wear eye/face protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P401 Store in accordance with local/regional/national/international regulations.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.
- **Water hazard class:**  
Water hazard class 1 (Assessment by list): slightly hazardous for water  
ID-Number: 222
- **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.

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**· Reasons for changes:**

*The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by \*.*

**· Department issuing MSDS:**

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Parkstraße 29                  Fax: +49 - 2151 - 652086-9  
D-47829 Krefeld  
Germany

**· 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)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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

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