

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.02.2012

Version number 1

Revision: 10.02.2012

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

- **Date of issue:** 14.04.2004
- **Product identifier**
- **Trade name:** Melpool pH-
- **CAS Number:**
7681-38-1
- **EC number:**
231-665-7
- **Index number:**
016-046-00-X
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:**
Chemicals for various applications
pH-corrective agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Melspring International B.V. Phone: +31 (0) 26 - 38420 - 00
Arnhemsestraatweg 8 Fax: +31 (0) 26 - 38420 - 11
NL-6881 NG Velp
- **E-mail address of the competent person responsible for the Safety Data Sheet:** 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**
-  **GHS05 corrosion**

Eye Dam. 1 H318 Causes serious eye damage.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **Xi; Irritant**

R41: Risk of serious damage 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**
-  **GHS05**
- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
Sodium hydrogensulphate
- **Hazard statements**
H318 Causes serious eye damage.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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- P103 *Read label before use.*
- P280 *Wear protective gloves/protective clothing/eye protection/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.*
- P309+P311 *IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.*
- 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:**
7681-38-1 Sodium hydrogensulphate
- **Identification number(s):**
- **EC number:** 231-665-7
- **Index number:** 016-046-00-X

4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Rinse with warm water.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Use eye protection.
Call a doctor immediately.
- **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** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** none
- **Special hazards arising from the substance or mixture**
Can be released in case of fire:
Sulphur oxides (SO_x)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

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- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- Avoid contact with skin and eyes.
- Ensure adequate ventilation.
- Keep people at a distance and stay on the windward side.
- Do not breathe dust.

- **Environmental precautions:**

- Damp down dust with water spray jet.
- 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.
- Provide suction extractors if dust is formed.
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Make sure that all applicable workplace limits are observed.

- **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:**

- Observe all local and national regulations for storage of water polluting products.

- **Information about storage in one common storage facility:**

- Store away from foodstuffs.
- Do not store together with alkalis (caustic solutions).

- **Further information about storage conditions:**

- Protect from humidity and keep away from water.
- 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.

- **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.
- Instantly remove any contaminated garments.

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Avoid contact with the eyes and skin.

Use skin protection cream for preventive skin protection.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

Use breathing protection in case of dust formation.

Dust proof mask - particle filter mask

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

· **Material of gloves**

Butyl rubber - BR

Nitrile rubber - NBR

Synthetic 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.

· **Eye protection:** Tightly sealed safety glasses

· **Body protection:** Protective work clothing

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: crystalline powder

Granulate

Colour: yellowish

· **Smell:** odourless

· **pH-value (12 g/l) at 20°C:** 1.3

· **Change in condition**

Melting point/Melting range: 180°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:** not determined

· **Bulk density at 20°C:** 1.40 - 1.45 kg/dm³

· **Solubility in / Miscibility with**

Water at 20°C: 280 g/l

· **Other information** 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**

Reacts with alkali and metals

Forms hydrogen in aqueous solution with metals

· **Conditions to avoid** No further relevant information available.

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- **Incompatible materials:**
 - Base metals
 - Alkaline materials
- **Hazardous decomposition products:**
 - Sulphur oxides (SO_x)
 - Carbon monoxide (CO) and Carbon dioxide (CO₂)

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
- | | |
|---|-----------------------|
| · LD/LC50 values that are relevant for classification: | |
| 7681-38-1 Sodium hydrogensulphate | |
| Oral | LD50 2490 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** Longer lasting and/or repeated skin contact may cause irritation.
 - **on the eye:** Strong irritant with the danger of severe eye injury.
 - **Sensitization:** No sensitizing effect known.

12 Ecological information

- **Toxicity**
- | | |
|--|---------------------------------------|
| · Aquatic toxicity: | |
| 7681-38-1 Sodium hydrogensulphate | |
| LC 50/48h | 190 mg/l (water flea (daphnia magna)) |
- **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:**
 - Do not allow product to reach ground water, water bodies or sewage system.
 - 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.
- **Waste disposal key number:** According to local/national 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.

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· **Recommended cleaning agent:** Water, if necessary with cleaning agent.**14 Transport information**

· UN-Number · ADR, IMDG, IATA	Void
· UN proper shipping name · ADR, IMDG, IATA	Void
· Transport hazard class(es) · ADR, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

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**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Sodium hydrogensulphate
- **Hazard statements**
H318 Causes serious eye damage.
- **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 protective gloves/protective clothing/eye protection/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.
 - P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 - 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.

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- **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: 376
- **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.

- **Reasons for changes:**
*The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.*
Changes in classification and labelling
- **Department issuing MSDS:**
C.S.B. GmbH Phone: +49 - 2151 - 652086-0
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

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