

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 Minus

· **Application of the substance / the preparation**

Chemicals for various applications
pH-corrective agent

· **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:**

7681-38-1 Sodium hydrogensulphate

· **Identification number(s):**

· **EINECS Number:** 231-665-7

· **EC Number:** 016-046-00-X

3 Hazards identification

· **Hazard designation:**



Xi Irritant

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

R 41 Risk of serious damage to eyes.

4 First aid measures

· **General information** Instantly 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.

Use eye protection.

Call a doctor immediately.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

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5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** none
- **Special hazards caused by the material, its products of combustion or flue gases:**
Sulphur oxides (SO_x)
- **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.
Keep people at a distance and stay on the windward side.
Avoid breathing dust.
- **Measures for environmental protection:**
Damp down dust with water spray jet.
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.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Provide suction extractors if dust is formed.
Do not breathe dust.
Ensure good ventilation/exhaustion at the workplace.
Avoid skin and eye contact.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
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/m³
OEL respirable dust: 3 mg/m³
- **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**
Instantly remove any contaminated garments.
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:

· General Information

Form:	crystalline powder Granulate
Colour:	yellowish
Smell:	odourless

· 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.

· **Vapour pressure at 20°C:** k.D.v. hPa

· **Density** Not determined

· **Settled apparent density at 20°C** 1.40 - 1.45 kg/m³

· Solubility in / Miscibility with

Water at 20°C: 1.080 g/l

· **pH-value at 20°C:** 1

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
Base metals
Alkaline materials
- **Dangerous reactions**
Reacts with alkali and metals
Forms hydrogen in aqueous solution with metals.
- **Dangerous products of decomposition:** Sulphur oxides (SO_x)

11 Toxicological information

- **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:

- **Behaviour in environmental systems:**
 - **Mobility and bioaccumulation potential:** not determined
 - **Ecotoxicological effects:**
 - **Aquatic toxicity:**
- | | |
|-----------------------------------|---------------------------------------|
| 7681-38-1 Sodium hydrogensulphate | |
| LC 50/48h | 190 mg/l (water flea (daphnia magna)) |
- **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.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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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.

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:

41 Risk of serious damage to eyes.

· Safety phrases:

2 Keep out of the reach of children.

24 Avoid contact with skin.

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:

Concerning: Revised data

The current MSDS has been changed against the previous version. Chapters which have been changed, are marked with an asterisk (*) at the chapter number.

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:

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