1. Identification of the substance and of the company

Product name: Poly(acrylic acid) sodium salt

Manufacturer / supplier identification

Company: PSS Polymer Standards Service GmbH
In der Dalheimer Wiese 5
D - 55023 Mainz

Technical Phone: +49 6131 - 96239 - 0
Fax: +49 6131 - 96239 - 11
Email: Info@polymer.de
Emergency Phone: +49 6131 - 1924 - 0

2. Composition / information on ingredients

CAS-No.: 9003-04-7
EG/EC No.: none
Molecular formula: C₃H₃NaO₂

3. Hazards identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Irritating to eyes.

4. First aid measures

AFTER INHALATION
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT
In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT
In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. Fire fighting measures

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

HANDLING
Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Conditions of storage: Keep tightly closed.

SPECIAL REQUIREMENTS
Moisture sensitive.

8. Exposure controls / personal protection

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

HAND PROTECTION
Compatible chemical-resistant gloves.

EYE PROTECTION
Chemical safety goggles.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Physical State: Solid</td>
</tr>
<tr>
<td></td>
<td>Colour: -</td>
</tr>
<tr>
<td></td>
<td>Form: Fine crystals</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>BP/BP Range</td>
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</tr>
<tr>
<td>Mp/Mp Range</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>Autoignition Temp.</td>
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<tr>
<td>Oxidizing Properties</td>
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</tr>
<tr>
<td>Explosive Properties</td>
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<tr>
<td>Explosion Limits</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>SG/Density</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Saturated Vapor Conc.</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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</tr>
</tbody>
</table>
10. Stability and reactivity

STABILITY
Stable: Stable
Conditions to Avoid: Moisture.
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sodium oxide.

HAZARDOUS POLYMERIZATION
Will not occur.

11. Toxicological information

RTECS NUMBER: WD6826000

ACUTE TOXICITY
LD50
Oral
Rat
> 40000 mg/kg

IRRITATION DATA
Eyes
Rabbit
2 mg
Remarks: Moderate irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Exposure can cause: Gastrointestinal disturbances.

ROUTE OF EXPOSURE
Skin contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes eye irritation.
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

12. Ecological information
No data available

13. Disposal considerations

SUBSTANCE DISPOSAL
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. Transport information

RID/ADR
Non-hazardous for road transport.
### IMDG
Non-hazardous for sea transport.

### IATA
Non-hazardous for air transport.

## 15. Regulatory information

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
- **Indication of danger:** Xi
- **Irritant.**
- **R-PHRASES:** 36
  - Irritating to eyes.
- **S-PHRASES:** 26-36
  - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.
  - Caution: Substance not yet fully tested (EU).

### COUNTRY SPECIFIC INFORMATION
**Germany**
- **WGK:** 1
- **ID-Number:** 1832
- **KBwS-Decision**

## 16. Other information

### WARRANTY
The information in this document is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. PSS GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

### DISCLAIMER
For R&D use only. Not for drug, household or other uses.