Material Safety Data Sheet

A1 Retarder

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name: A1 Retarder

Supplier: Acrylic One
Nijverheidsweg 15 A
3251 LP Stellendam
+31-187-663006
info@acrylicone.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>NO.</th>
<th>Ingredient</th>
<th>CAS REG No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ammonium salts of acrylic polymer</td>
<td>Not Hazardous</td>
<td>5-95</td>
</tr>
<tr>
<td>2.</td>
<td>Residual monomers</td>
<td>Not required</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>3.</td>
<td>Water</td>
<td>7732-18-5</td>
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This Product is a preparation.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Inhalation, Skin contact and Eye contact.

Inhalation: Inhalation of vapour or mist can cause the following:
Headache, nausea, irritation of the nose, throat and lungs.

Skin contact: Prolonged or repeated skin contact can cause the following:
Slight skin irritation.

Eye Contact: Direct contact with material can cause the following:
slight irritation.

Delayed effects: Prolonged or repeated overexposure to dusts or mists can cause lung irritation.
4. FIRST AID MEASURES

Inhalation: Move subject to fresh air.

Skin Contact: Wash affected skin areas thoroughly with soap and water consult a physician if irritation persists.

Eye Contact: Flush eyes with a large amount of water for at least 15 minutes. Consult a doctor if irritation persists.

Ingestion: If swallowed, give 2 glasses of water to drink. Consult a doctor. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash Point: Non-combustible
Auto-ignition Temperatures Not applicable
Lower Explosive Limit Not applicable
Upper Explosive Limit Not applicable

Unusual Hazards: Material can splatter above 100 ºC. Dried product can burn.

Extinguishing Agents: Use extinguishing media appropriate for surrounding fire

Personal Protective Equipment: Wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Appropriate protective equipment must be worn. When handling a spill of this material. See SECTION 8, exposure Controls / Personal Protection for recommendations. If exposed to material during clean up operations, see Section 4, First Aid Measures, for actions to follow.

Procedure: Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. STORAGE AND HANDLING

Storage Conditions: Keep from freezing: material may coagulate. Minimum recommended storage temperature for this material is 1 ºC.

Maximum recommended storage temperature for this material is 49 ºC

Handling Procedures: Monomer vapours can be evolved when material is heated during processing operations. Note: Formaldehyde will be generated under acidic conditions. Maintain adequate ventilation under these conditions to prevent exposure to formaldehyde above the recommended ceiling of 0.3 ppm.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Respiratory protection: a respiratory protection program must be followed whenever workplace conditions warrant a respirator’s use. None required if airborne concentrations are maintained below the exposure limit. For dust or mist up to 5 times the exposure limit, wear a properly fitted approved filtering face piece. If oil mist is present, wear a single use filtering face piece.

Eye protection: Use approved safety glasses with side shields. Eye protection worn must be compatible with respiratory protection system employed.

Hand protection: Neoprene gloves may provide protection against permeation.

Engineering controls (ventilation): Use local exhaust ventilation with a minimum capture velocity of 0.75 m/sec. at the point of dust or mist evolution.

Other protective equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Colour: Light yellow
- Appearance: Clear
- State: Liquid
- pH: 6 – 7
- Specific Gravity: 1.10 – 1.25
- Vapour Density: < 1 water
- Vapour Pressure: 17 mm Hg 20 ºC water
- Melting point: 0 ºC water
- Boiling point: 100 ºC water
- Solubility in water: Completely soluble
- Percent Volatility: 90 to 91 % water
- Evaporation rate: < 1 water

Physical and chemical date given are typical values for this product and are not intended to be product specifications.

10. STABILITY AND REACTIVITY

Instability: This material is considered stable. However, avoid temperatures above 230 ºC, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

Hazardous Decomposition Products: Thermal decomposition may yield acrylic monomers.

Hazardous Polymerisation: Product will not undergo polymerisation.

Incompatibility: There are no known materials which are incompatible with this product Instability.
11. TOXICOLOGICAL INFORMATION

Toxicity data for a compositionally similar material:

Oral LD50 – rat: >5000 mg/kg
Dermal LD50 – rabbit: >5000 mg/kg
Skin Irritation – rabbit: Practically non-irritating
Eye Irritation – rabbit: Inconsequential Irritation

12. EXOLOGICAL INFORMATION

No applicable Data

13. DISPOSAL CONSIDERATIONS

Procedure: For disposal incinerate this material at a facility that complies with local state and federal regulations for handling reactive material.

14. TRANSPORT INFORMATION

Hazardous class: Not Regulated for Transport

15. REGULATORY INFORMATION

EEG
This product satisfies all the requirements of the European inventory of Existing Chemical Substances (EINECS)

Hazardous class: Not Regulated for Transport

16. OTHER INFORMATION

None

DISCLAIMER OF LIABILITY
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