

Material Safety Data Sheet

1. Chemical Product and Company Identification

Product Name	DPA-1000
Supplier / Manufacturer	DreamPolymer Co., A205, 98, Haenggung-ro, Paldal-gu, Suwon-si, Gyeonggi-do, Republic of Korea 16463 TEL:(031)309-4375
Chemical Name	Sodium Acrylates copolymer dispersed in water
Product Uses	Cosmetics Former
Revision date	2023.07.21 (Version 2.0)

2. Composition Information on Ingredients

Component	% by Weight	CAS #
Water	40	7732-18-5
Sodium Acrylates Copolymer	60	25549-84-2

Typical composition is given, and it may vary. A certificate of analysis can be provided.

3. Hazards Identification

EMERGENCY OVERVIEW

Product is a nonflammable aqueous dispersion acrylic copolymer with good adhesion. Product is irritating to eyes and skin. May be harmful if swallowed. Inhalation of mists/vapors/fumes may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

HMIS

HEALTH : 1
FIRE : 0
REACTIVITY : 0

0=Minimal: 1=Slight: 2=Moderate:
3=Serious: 4=Severe

Potential Health Effects

- ① Eye Contact Liquid or vapors may irritate the eyes.
- ② Skin Contact Product is irritating to skin.
- ③ Inhalation May be harmful if inhaled. Vapors may be irritating. Inhalation of mists/vapor/fumes generated by heating this product may cause respiratory irritation and burning with throat discomfort, coughing and difficulty breathing.
- ④ Ingestion May be harmful if swallowed. Ingestion of large quantities may results in gastrointestinal disturbances including irritation, nausea, and diarrhea.

4. First Aid Measures

Eye Contact	Immediately flush eyes with flooding amounts of cool, low pressure water for at least 15 minutes. If irritation persists, get medical attention.
Skin Contact	In case of skin contact, wash immediately with soap and water. If irritation develops or persists, get medical attention. Launder contaminated clothing before reuse.
Inhalation	Move person to non-contaminated air. If affected person is not breathing, apply artificial respiration. Seek medical attention.
Ingestion	If swallowed, contact a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by medical personnel.

5. Fire and Explosion Data

Flammability of the product	Nonflammable
Auto-Ignition Temperature	Not available
Flammable Limits	Not available
General Fire Hazards	This product is an aqueous mixture which will not burn.

6. Accidental Release Measures

Containment	Contain the discharged material. Do not allow product to enter public drainage systems or open water courses.
Clean-up Procedures	Wear appropriate protective equipment and clothing during clean-up. Do not allow eye, skin contact, and inhalation of vapors during clean-up. Absorb spilled material with an inert material. Shovel material into appropriate container for disposal. Thoroughly wash spill area with water after clean-up. Follow all Local, State, Federal and Provincial regulations for disposal.
Evacuation Procedures	Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.
Special Instructions	Avoid contact with skin and eyes. Remove soiled clothing and launder before reuse.

7. Handling and Storage

Handling	Do not breathe vapors or fumes. Do not allow product to come into contact with skin or eyes. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet or applying cosmetics.
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Storage	Store at ambient temperature and atmospheric pressure. Do not allow product to freeze. Store above 5℃.
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8. Exposure Controls / Personal Protection

Engineering Controls	Provide local exhaust and general ventilation systems to maintain airborne concentrations below OSHA, ACGIH, and manufacturer recommended exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into work areas by controlling it at its source. Use local and general exhaust ventilation to effectively remove and prevent buildup of mists/vapors/fumes generated from the handling of this product.
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Personal Protection

① Eye/Face	Wear chemical goggles or face shield if splashing is possible. Ensure compliance with OSHA's personal protective equipment(PPE) standard for eye and face protection, 29 CFR 1910.133.
② Skin	Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. For heated/molten product, use any type thermal insulating gloves and other clothing as necessary to protect from thermal burns. Ensure compliance with OSHA's personal protective equipment(PPE) standard, 29 CFR 1910.132(general) and 138 (hand protection).
③ Respiratory	GAS/VAPOR: Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1901.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented. For concentrations above the TLV and/or PEL but less than 10 times these limits, a NIOSH approved half-facepiece respirator equipped with appropriate chemical cartridges may be used. For concentrations greater than 10 times the TLV and/or PEL, consult the NIOSH respirator decision logic found in Publication No.87-116 or ANSI Z88.2-1992.

9. Physical and Chemical Properties

Physical State	: Liquid	Vapor Density	: <1 (Air=1)
Odor	: Not available	Percent Volatile	: <40% (Water)
Color	: Creamy White	Solubility (water)	: Dilutable
Molecular Weight	: Not applicable	Density	: >1 (ISO2811-1)
Specific Gravity	: ~1.02 (Water=1)	Flash Point	: Not applicable

Boiling Point	: 100℃ (Water)	R/B Softening Point	: Not applicable
pH	: 6–8 (KS M ISO976)	Acid No.	: Not applicable
Vapor Pressure	: 23mbar (20℃)	Viscosity	: 4000–6000mPa (ISO2555)

10. Stability and Reactivity Data

Chemical Stability	The Product is stable.
Conditions to avoid	Avoid strong oxidizing agents. Do not freeze.
Incompatibility	May react with strong oxidizing agents.
Hazardous Polymerization	Hazardous polymerization will not occur.

11. Toxicological Information

Toxicity to Animals	<i>Acute oral toxicity</i> : LD50 rat 2,000–10,000mg/kg <i>Acute dermal toxicity</i> : LD50 rabbit > 5,000mg/kg
Toxicity to Humans	Contact may cause skin or eye irritation. Ingestion may cause nausea, vomiting and diarrhea. Inhalation of mists/vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

12. Ecological Information

Ecotoxicity	Based on the pH this product, it is unlikely that a spill would be harmful to aquatic organisms. However, large spills or concentrated discharges of this product into water may result in suspended or settleable solids which lower the dissolved oxygen content of water body. Sedimentation to the bottom of a body of water may result in detrimental effects to fish life by reducing their growth rate, preventing the successful development of fish eggs and larvae, or reducing the abundance of food available to the fish. <i>Toxicity to fish</i> : LC50 Bluegill sunfish (<i>Lepomis macrochirus</i>) 48 h 0.024–0.093mg/l LC50 Brachydanio rerio 96 h >100mg/l (OECD Guideline 203) <i>Toxicity to aquatic invertebrates</i> : EC50 <i>Daphnia magna</i> (Water flea) 48 h >100mg/l (OECD Guideline 202) <i>Toxicity to aquatic plants</i> : EC50 <i>Scenedesmus subspicatus</i> 72 h >100mg/l (OECD Guideline 201) Microorganisms / Effect on activated sludge : EC20 Activated sludge 0.5 h >100mg/l (ISO8192–OECD209–88/302/EEC)
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13. Disposal Considerations

Waste Disposal

Wastes must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous waste. No EPA Waste Numbers are applicable for this product's components. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Write to the address listed in Section 1 for information on heavy metals analysis and other disposal information.

14. Transport Information

Domestic Transport

Not classified as a dangerous good under transport regulations

Sea Transport (IMDG)

Not classified as a dangerous good under transport regulations

Air Transport (IATA/ICAO)

Not classified as a dangerous good under transport regulations

15. Regulatory Information

OSHA: Not hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SARA TITLE III:

SARA Section 302 (40 CFR 355 Appendix A): None of this product's components are listed;

SARA Section 311/312: None

SARA Section 313 (40 CFR 372.65): None of this product's components are listed;

CERCLA (40 CFR 302.4): None of this product's components are listed.

TSCA Inventory: All of this product's components are listed.

16. Other Information

Key/Legend

ACGIH=American Conference of Governmental Industrial Hygienists.
 ANSI=American National Standards Institute.ASTM=American Society for Testing and Materials. CERCLA=Comprehensive Environmental Response,Compensation and Liability Act. DOT=Department of Transportation. EPA=Environmental Protection Agency. IARC=International Agency for Research on Cancer. LD=Lethal Dose. NIOSH=National Institute of Occupational Health and Safety. NPT=National Toxicology Program. OSHA=Occupational Safety and Health Administration. PEL=Permissible Exposure Limit. SARA=Superfund Amendments and Reauthorization Act. TVL=Threshold Limit Value. TSCA=Toxic Substance Control Act.

Supersedes Date

None

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