

Safety Data Sheet - Draft

Acrylic Paint Water Clarifier / Flocculant

Draft SDS-style document for product-development use

April 25, 2026

Safety Data Sheet - Draft

Product name: Acrylic Paint Water Clarifier / Flocculant

Mixture: Aluminum sulfate and hydrated lime

Intended use: Small-quantity treatment of acrylic paint rinse water to help separate clearer water from settled paint sludge.

Recommended use amount: Less than 2 teaspoons per batch, according to product directions.

Revision date: April 25, 2026

Important notice: This is a draft SDS-style document for product-development and internal review. It is not a certified or legally reviewed Safety Data Sheet. Final classification depends on the exact formula, component SDSs, pH testing, packaging, intended market, and applicable regulations. Before commercial sale or workplace distribution, have the SDS reviewed by a qualified SDS author, industrial hygienist, or regulatory consultant.

1. Identification

Product name: Acrylic Paint Water Clarifier / Flocculant

Synonyms: Paint water settling powder; studio rinse-water clarifier; acrylic rinse-water flocculant

Recommended use: For home and studio artists to clarify acrylic paint rinse water by encouraging suspended paint solids to settle as sludge.

Restrictions on use: Not for food, medical, cosmetic, agricultural, drinking-water, aquarium, or pond use. Do not use with oil paint, solvents, resin, epoxy, bleach, ammonia, alcohol inks, unknown chemical waste, or hazardous materials.

Emergency information: For exposure emergencies, contact local emergency services or Poison Control. In the United States, Poison Control can be reached at 1-800-222-1222.

2. Hazard Identification

Draft GHS classification for mixture: Conservative estimate pending final formula review and testing.

Likely hazards:

- Causes serious eye irritation or serious eye damage.
- Causes skin irritation.
- May cause respiratory irritation if dust is inhaled.
- Dust may irritate the nose, throat, and lungs.
- May alter pH when mixed with water.
- May be harmful to aquatic life if released in large or concentrated amounts.

Signal word: Danger

Suggested pictograms: Corrosion; Exclamation mark

Hazard statements:

- Causes serious eye damage.
- Causes skin irritation.
- May cause respiratory irritation.
- Avoid release to the environment.

Precautionary statements:

- Keep out of reach of children and pets.
- Do not breathe dust.
- Avoid contact with eyes, skin, and clothing.
- Use only with adequate ventilation.
- Wear gloves and eye protection when handling.
- Wash hands thoroughly after use.
- Do not eat, drink, or smoke while using this product.
- Do not dump concentrated product or wet sludge into storm drains, gardens, ponds, or waterways.

3. Composition / Information on Ingredients

Ingredient	CAS Number	Approximate Function	Hazard Notes
Aluminum sulfate, hydrated or anhydrous form	10043-01-3, or hydrated forms vary	Coagulant / flocculant	Eye, skin, and dust irritation; may contribute acidity in solution
Calcium hydroxide / hydrated lime	1305-62-0	pH adjustment / precipitating agent	Serious eye damage; skin and respiratory irritation; alkaline material

Formula note: Exact percentages should be inserted once the final formulation is set. Supplier SDSs for each raw material should be attached to the product-development file.

4. First-Aid Measures

Eye contact: Immediately rinse eyes cautiously with water for at least 15-20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention promptly.

Skin contact: Remove contaminated clothing. Wash skin with plenty of water and mild soap. Get medical advice if irritation, redness, dryness, or burning continues.

Inhalation: Move person to fresh air. If coughing, breathing difficulty, or irritation continues, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Contact Poison Control or a physician, especially if more than a very small amount is swallowed.

Most important symptoms: Eye pain, redness, watering, skin irritation, coughing, throat irritation, and burning sensation.

5. Fire-Fighting Measures

Flammability: Product is not expected to be flammable.

Suitable extinguishing media: Use extinguishing media appropriate for the surrounding fire.

Specific hazards: Dust may be irritating. Containers may rupture or degrade if exposed to extreme heat or incompatible chemicals.

Protective equipment for firefighters: Use standard protective gear and respiratory protection appropriate for the surrounding fire conditions.

6. Accidental Release Measures

Personal precautions: Avoid creating dust. Wear gloves and eye protection. Avoid breathing dust.

Cleanup methods: Sweep or scoop carefully into a suitable container. Do not use compressed air. Avoid washing large amounts into drains.

Environmental precautions: Keep dry product, concentrated product, and cleanup waste away from storm drains, surface water, groundwater, soil, ponds, and gardens.

7. Handling and Storage

Handling:

- Use only small quantities as directed.
- Add slowly to acrylic paint rinse water to minimize dust.
- Stir gently to avoid splashing.

- Avoid inhaling dust.
- Avoid contact with eyes, skin, and clothing.
- Do not mix with acids, bleach, ammonia, household cleaners, solvents, resin, epoxy, oil paint, or unknown chemicals.
- Use a dedicated scoop or spoon; do not use kitchen utensils.

Storage:

- Store tightly closed in a dry container.
- Keep away from moisture.
- Keep out of reach of children and pets.
- Store away from food, beverages, animal feed, and household cleaners.

8. Exposure Controls / Personal Protection

Engineering controls: Use in a well-ventilated area. Avoid dusty conditions.

Eye protection: Safety glasses or splash goggles are recommended.

Skin protection: Nitrile, latex, or household rubber gloves are recommended.

Respiratory protection: Normally not required for tiny home-studio quantities if dust is avoided. If dust is generated, use suitable dust protection and improve ventilation.

Hygiene measures: Wash hands thoroughly after handling. Do not touch eyes while using. Clean up spills promptly.

9. Physical and Chemical Properties

Property	Expected Value
Appearance	White to off-white powder or granular blend
Odor	Odorless or slight mineral odor
pH	Variable when mixed with water; depends on formula, dose, and paint-water composition
Melting point	Not determined for mixture
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not expected to be flammable
Solubility	Partially soluble and reactive in water
Density	Not determined
VOC content	Expected to be 0%

10. Stability and Reactivity

Reactivity: May react with water and dissolved paint components. Hydrated lime is alkaline; aluminum sulfate is acidic in solution. The mixture may shift pH during use.

Chemical stability: Stable when kept dry and stored properly.

Possibility of hazardous reactions: Avoid mixing with strong acids, strong bases, oxidizers, bleach, ammonia, solvents, household cleaners, or unknown chemicals.

Conditions to avoid: Moisture, dust generation, and incompatible chemicals.

Hazardous decomposition products: No hazardous decomposition expected under normal use. Fire conditions may produce irritating fumes from surrounding materials.

11. Toxicological Information

Likely routes of exposure: Eye contact, skin contact, inhalation of dust, and accidental ingestion.

Eye effects: May cause serious eye irritation or serious eye damage.

Skin effects: May cause irritation, dryness, redness, or burning sensation.

Inhalation effects: Dust may irritate nose, throat, and respiratory tract.

Ingestion effects: May irritate mouth, throat, stomach, and digestive tract.

Chronic effects: Repeated dust exposure may irritate the respiratory tract. Final evaluation should review supplier SDSs for trace impurities such as crystalline silica, if present in the hydrated lime source.

12. Ecological Information

Environmental hazards: Avoid release of concentrated product or sludge to waterways. Product may alter pH and may be harmful to aquatic life depending on concentration.

Disposal concern: The settled sludge may contain acrylic polymer, pigments, fillers, preservatives, and other paint additives. Some pigments may contain metals or other components requiring careful disposal.

13. Disposal Considerations

Household / studio use guidance:

- Let treated water settle fully.
- Decant clearer water according to local guidance and only if it is free of visible solids.
- Collect sludge in a disposable container or absorbent material.
- Let sludge dry only if safe and allowed by local rules.
- Dispose of dried sludge according to local waste regulations.
- Do not pour sludge into storm drains, gardens, sinks, toilets, ponds, or streets.

Important: If the paint water contains cadmium, cobalt, chromium, lead, solvents, resin, oil paint, or other hazardous materials, treat the sludge as potentially hazardous waste.

14. Transport Information

DOT / ground transport: Not expected to be regulated as a dangerous good in small consumer quantities, but classification must be confirmed based on final formula, package size, pH/corrosivity testing, and applicable shipping rules.

Item	Draft Status
UN number	Not determined
Proper shipping name	Not determined
Hazard class	Not determined
Packing group	Not determined

15. Regulatory Information

This draft is based on common SDS information for aluminum sulfate and hydrated lime / calcium hydroxide. Final regulatory classification depends on exact composition, concentration, particle size, pH, packaging, intended market, and jurisdiction.

For commercial distribution, prepare and maintain an SDS that complies with applicable federal, state, and local requirements. For U.S. workplace use, SDSs are typically organized under the OSHA Hazard Communication 16-section format.

16. Other Information

Draft Label Language

Acrylic Paint Water Clarifier

For use with acrylic paint rinse water only.

DANGER: Causes serious eye damage. Causes skin irritation. May cause respiratory irritation. Avoid breathing dust. Wear gloves and eye protection. Keep out of reach of children and pets.

Directions: Add less than 2 teaspoons to acrylic paint rinse water as directed. Stir gently. Allow solids to settle. Separate clear water from sludge. Dispose of sludge according to local regulations.

Do not use with: Oil paint, solvents, resin, epoxy, bleach, ammonia, acids, unknown chemicals, or hazardous waste.

First aid summary: If in eyes, rinse with water for 15-20 minutes and seek medical attention. If on skin, wash with soap and water. If inhaled, move to fresh air. If swallowed, contact Poison Control.

Product-Development Testing Recommendations

Before sale or distribution, test and document:

1. pH of the dry product in water at the recommended use rate.
2. pH after use in typical acrylic paint rinse water.
3. Eye and skin classification by calculation, testing, or professional SDS review.

4. Dustiness and particle-size concerns.
5. Compatibility with typical acrylic paint brands and pigments.
6. Sludge disposal expectations under local waste rules.

Revision note: Draft prepared for concept development and home-studio safety planning. Replace draft language with final supplier data and professional SDS review before commercial use.