



**Historic Plaster Conservation Services**  
Applied Science

**CO S-20 Primer**  
Water-Based Plaster Consolidation Primer



### Section 1: Product and Company Identification

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**Product Name:** CO S-20 Primer

**Product Description:** Water-Based Plaster Consolidation Primer

**Generic Name:** Aqueous acrylic emulsion

**Date of Revision:** 29 November 2012

### Section 2: Hazard Identification

**Emergency Overview:** Milky white, opaque liquid with ammonia odor. May be irritating to eyes, skin and respiratory system. Use with adequate ventilation.

|                            |          |
|----------------------------|----------|
| <b>HMIS HEALTH</b>         | <b>0</b> |
| <b>HMIS FLAMMABILITY</b>   | <b>0</b> |
| <b>HMIS REACTIVITY</b>     | <b>0</b> |
| <b>PERSONAL PROTECTION</b> | <b>C</b> |

**OSHA Regulatory Status:** This material is **not** considered hazardous under the OSHA standard.

**WHMIS Classification:** Not Controlled

#### Potential Health Effects:

**Inhalation:** Fumes may be irritating to respiratory tract with symptoms of nausea and headache.

**Ingestion:** May cause digestive system upsets.

**Skin Contact:** May cause irritation.

**Eye Contact:** Liquid and vapor may cause irritation and redness.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

**Target Organs:** Eyes, skin, respiratory system

### Section 3: Composition / Information On Ingredients

| Component                     | Common Names, Synonyms | CAS #        | EINECS     | Weight % |
|-------------------------------|------------------------|--------------|------------|----------|
| Non-hazardous acrylic polymer |                        | Not required | Not listed | 15 – 40  |
| Aqua ammonia                  | Ammonium hydroxide     | 1336-21-6    | 215-647-6  | < 0.2    |

Non-hazardous components may or may not be listed. Carcinogens are listed when present at 0.1% or more; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or more. This is not intended to be complete compositional disclosure. See Section 15 for applicable states right to know and other regulatory information.

**Section 4: First Aid Measures**

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Ingestion:** Dilute material by giving several glasses of water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**Note to Physicians:** N/A

**Section 5: Fire Fighting Measures**

**Fire:** Flash point: Not flammable. Once water has evaporated, product can provide fuel for a fire.

**Explosion:** Not considered an explosion hazard.

**Extinguishing Media:** Water spray, dry chemical, alcohol foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

**Special Precautions:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**NFPA Rating:** Health -0      Flammability - 0      Reactivity - 0      Other – NA

**Section 6: Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Scrape or push material onto cardboard surface of sufficient size to hold spill. Recovered material can often be disposed of in a sanitary landfill or with ordinary household trash. Make sure that disposal is performed in compliance with federal and local laws.

**Section 7: Handling and Storage**

Mix before using. Keep in a tightly closed container, stored in a cool, dry, ventilated area. Keep from freezing. Protect against physical damage. Isolate from any source of heat or ignition. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Empty containers of this material may possess the same hazards as full containers since they retain product residues (liquid, vapors); observe all warnings and precautions listed for the product.

**Section 8: Exposure Control / Personal Protection**

**Exposure Guidelines:**

| Component       | CAS #     | OSHA PEL                       | ACGIH TLV                 | NIOSH TLV   |
|-----------------|-----------|--------------------------------|---------------------------|---|
| Acrylic polymer |           | None established               | None established          | None established  |
| Aqua ammonia    | 1336-21-5 | 50 ppm (35 mg/m <sup>3</sup> ) | 25 ppm TWA<br>35 ppm STEL | 18 mg/m <sup>3</sup> REL<br>27 mg/m <sup>3</sup> STEL<br>300 ppm IDLH |

**Personal Protective Equipment:**

**Skin Contact:** While no specific hazards exist, prudent work practices avoid unnecessary contact with skin. To this end, wear protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Nitrile and NBR gloves are recommended.

**Eye Contact:** Use chemical safety goggles and/or full face shield where misting or splashing of solutions is possible.

**Inhalation:** General ventilation should be sufficient to avoid accumulation of fumes.

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

| Section 9: Physical and Chemical Properties |                            |                         |                |
|---|----------------------------|-------------------------|----------------|
| Appearance                                  | Milky white, opaque liquid | Specific Gravity (g/mL) | 1.00 – 1.05    |
| Odor  | Weak ammonia               | pH                      | Not determined |
| Odor Threshold                              | Not determined             | Solubility in water     | Approx 50%     |
| Freezing Point                              | About 0°C (32°F)           | % Volatiles             | <1%            |
| Boiling Point                               | Not determined             | Evaporation Rate        | Not determined |
| Flash Point                                 | Not flammable              | Vapor Pressure          | Not determined |
| VOC as component                            | 0 g/L                      | VOC as applied          | 0 g/L          |

#### Section 10: Stability and Reactivity

**Chemical Stability:** This product is stable in closed containers at room temperature.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>, N<sub>2</sub>O), hydrogen cyanide, isocyanates, acrylic monomers, organic acids and aldehydes.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Strong acids, oxidizers, heat

**Conditions to Avoid:** Incompatible materials, combustible materials.

#### Section 11: Toxicological Information

**Acute Dose Effects: Eyes:** No information found.

**Skin:** No information found

**Oral:** No information found.

**Inhalation:** No information found.

#### Section 12: Ecological Information

**Environmental Fate:** This product is not expected to bioaccumulate. This product is not readily biodegradable.

**Ecotoxicity:** This material is expected to have a low environmental toxicity.

#### Section 13: Disposal Considerations

**As a waste, this material IS NOT considered a HAZARDOUS WASTE.**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### Section 14: Transport Information

**Canadian TDG**

**Proper Shipping Name:** Not regulated for transport

**DOT Hazard Class:** N/A

**UN Number:** N/A

**Packing Group:** N/A

**International Air**      **Proper Shipping Name:** Not regulated for transport  
**DOT Hazard Class:** N/A  
**UN Number:** N/A  
**Packing Group:** N/A

**U.S. Domestic Ground** **Proper Shipping Name:** Not regulated for transport  
**DOT Hazard Class:** N/A  
**UN Number:** N/A  
**Packing Group:** N/A

**U.S. Domestic Air**      **Proper Shipping Name:** Not regulated for transport  
**DOT Hazard Class:** N/A  
**UN Number:** N/A  
**Packing Group:** N/A

This data provided for information only. The description shown may not apply to all shipping situations. Consult TDG, 49 CFR, or appropriate regulations to properly classify your shipment for transportation.

### Section 15: Regulatory Information

**TSCA Chemical Inventory:** All of the chemicals in this product are listed on the TSCA Inventory.  
**TSCA Sec 4 Chemical Test Rule:** None of the chemicals in this product are under a Chemical Test Rule.  
**TSCA Sec 8(d):** None of the chemicals in this product are on the Health and Safety Reporting List.  
**TSCA Sec 12(b) Notices of Export:** None of the chemicals in this product are on this list.  
**TSCA Significant New Use Rule (SNUR):** None of the chemicals in this product are on this list.  
**SARA Sec 302 (EHS) TPQ:** None of the chemicals in this product have a TPQ.  
**SARA Sec 302 (EHS) RQ:** None of the chemicals in this product have a RQ.  
**SARA Sec 311/312:** Acute – NO; Chronic – NO; Fire – NO; Release of Pressure – NO; Reactivity – NO  
**SARA 313 List:** None of the chemicals in this product are on this list.  
**CERCLA Hazardous Substances and corresponding RQs:** Not applicable.  
**RCRA:** None of the chemicals in this product are on this list.  
**Clean Air Act: Hazardous Air Pollutants?** NO **Class 1 Ozone Depletors?** NO **Class 2 Ozone Depletors?** NO  
**Clean Water Act: Hazardous Substance?** NO **Priority Pollutant?** NO **Toxic Pollutant?** NO  
**Chemical Weapons Convention:** None of the chemicals in this product are on this list.  
**Drug Enforcement Agency (DEA) CDTA:** None of the chemicals in this product are on this list.  
**OSHA:** None of the chemicals in this product are considered Highly Hazardous by OSHA.  
**State Right-to-Know Lists:** Ammonium hydroxide can be found on the state Right-to-Know lists of California, Massachusetts, New Jersey and Pennsylvania.  
**California Proposition 65:** None of the chemicals in this product are on this list.  
**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations. The components in this product are listed, or exempt from listing, on the Canadian Domestic Substances List.  
**WHMIS Classification:** Not controlled.  
**Canada Ingredient Disclosure List:** Ammonium hydroxide is listed on the Ingredient Disclosure List.

### Section 16: Other Information

**Abbreviations and acronyms used:**

|       |   |      |                                      |
|-------|---|------|--------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists | ND   | not determined                       |
| ANSI  | American National Standards Institute                     | NFPA | National Fire Prevention Association |
| atm   | atmosphere (pressure unit)                                | NTP  | National Toxicology Program          |

|        |   |       |   |
|--------|---|-------|---|
| BOD    | biological oxygen demand                                      | OC    | open cup                                      |
| CAS    | Chemical Abstracts Service                                    | OSHA  | Occupational Safety and Health Administration |
| CC     | closed cup  | Part  | partition                                     |
| CDTA   | Chemical Drug and Trafficking Act                             | PEL   | permissible exposure limits                   |
| COC    | Cleveland Open Cup  | ppb   | parts per billion                             |
| COD    | chemical oxygen demand  | PPE   | personal protective equipment                 |
| CFR    | Code of Federal Regulations                                   | ppm   | parts per million                             |
| CPR    | cardio-pulmonary resuscitation                                | psi   | pounds per square inch                        |
| DEA    | Drug Enforcement Agency                                       | RCRA  | Resource Conservation and Recovery Act        |
| DOT    | Department of Transportation                                  | RQ    | Reportable quantity                           |
| EINECS | European Inventory of Existing Commercial Chemical Substances | RTK   | Right to Know                                 |
| FDA    | Food and Drug Administration                                  | SARA  | Superfund Amendments and Reauthorization Act  |
| IARC   | International Agency for Research on Cancer                   | STEL  | short-term exposure limit                     |
| IDLH   | immediate danger to life and health                           | TCC   | Tagliabue Closed Cup                          |
| kg     | kilogram  | TDG   | Transportation of Dangerous Goods             |
| L      | liter   | TPQ   | threshold planning quantity                   |
| LC50   | median lethal concentration                                   | TQ    | threshold quantity                            |
| LD50   | median lethal dose  | TSCA  | Toxic Substances Control Act                  |
| LEL    | lower explosive limit   | TWA   | time-weighted average                         |
| mg     | milligram   | UEL   | upper explosive limit                         |
| mL     | milliliter  | WHMIS | Workplace Hazardous Information System        |
| NIOSH  | National Institute for Occupational Safety and Health         |       |   |

This document was prepared in accordance with WHMIS, 29 CFR 1910.1200 and ANSI Z400.1-2004.

Prepared by Douglas R. Chrisope on 29 November 2012.

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