

# **CO F-20 Primer**

Solvent-Based Plaster Consolidation Primer



### **Section 1: Product and Company Identification**

**Historic Plaster Conservation Services** Product Name: CO F-20 Primer

26 Barrett Street **Product Description:** Solvent-Based Plaster consolidation primer

Port Hope, Ontario L1A 1M7 **Generic Name:** Agueous acrylic emulsion

Business: (905) 885-8764 FAX: (905) 885-8330

info@HistoricPlaster.com **Date of Revision:** 30 November 2012

# 24-Hour Emergency Phone Number: (613) 996-6666 (CANUTEC) Use only for spills and releases.

#### **Section 2: Hazard Identification**

Emergency Overview: Milky white, opaque liquid with ammonia odor. Flammable liquid and vapor. May be

irritating to eyes, skin and respiratory system. Use with adequate ventilation.

| HMIS HEALTH         | 2 |
|---------------------|---|
| HMIS FLAMMABILITY   | 2 |
| HMIS REACTIVITY     | 0 |
| PERSONAL PROTECTION | С |

**OSHA Regulatory Status:** This material is considered hazardous under the OSHA standard.

WHMIS Classification: B2, D2A

#### **Potential Health Effects:**

**Inhalation**: Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness. **Ingestion**: Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea,

vomiting, and diarrhea may also result.

**Skin Contact**: May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

Eye Contact: Vapors cause eye irritation. Splashes cause irritation and eye damage, including chemical conjunctivitis.

**Chronic Exposure**: May cause reproductive and fetal effects.

**Aggravation of Pre-existing Conditions**: Persons with pre-existing skin disorders or eye problems or

impaired liver or kidney function may be more susceptible to the effects of the substance.

Target Organs: Central nervous system, liver, kidneys, eyes

### **Section 3: Composition / Information On Ingredients**

| Component                     | <b>Common Names, Synonyms</b> | CAS#         | EINECS     | Weight % |
|-------------------------------|-------------------------------|--------------|------------|----------|
| Ethyl alcohol                 | Ethanol, grain alcohol        | 64-17-5      | 200-578-6  | 10 - 30  |
| 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 WHMIS and 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.

**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: 27-28°C (81-82°F).

**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 - 2 Flammability - 2 Reactivity - 0 Other – NA

#### **Section 6: Accidental Release Measures**

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (vermiculite, dry sand, earth,) and place in a chemical waste container. Do not use combustible materials such as saw dust. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak and to flush spills away from exposures. En 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 |            |   |                                |   |
|---|------------|---|--------------------------------|---|
| <b>Exposure Guidelines</b>                        | <b>S</b> : |   |                                |   |
| Component   | CAS#       | OSHA PEL  | ACGIH TLV                      | NIOSH TLV                                 |
| Ethyl alcohol                                     | 64-17-5    | 1000 ppm TWA                                    | 1000 ppm TWA                   | 1000 ppm TWA<br>3300 IDLH                 |
| Acrylic polymer<br>Aqua ammonia                   | 1336-21-5  | None established 50 ppm (35 mg/m <sup>3</sup> ) | None established<br>25 ppm TWA | None established<br>18 mg/m³ REL          |
|   |            |   | 35 ppm STEL                    | 27 mg/m <sup>3</sup> STEL<br>300 ppm IDLH |

### **Personal Protective Equipment:**

**Skin Contact**: 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. Maintain eye wash fountain and quick-drench facilities in work area.

**Inhalation**: General ventilation is recommended to keep exposures below the Airborne Exposure Limits. Use NIOSH-approved vapor respirator if exposure is unknown or exceeds permissible limits. A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**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) | 0.88 – 0.95    |
| Odor  | Weak ammonia               | pН                      | Not determined |
| Odor Threshold                              | Not determined             | Solubility in water     | Approx 75-85%  |
| Freezing Point                              | About 0°C (32°F)           | % Volatiles             | 11-23%         |
| Boiling Point                               | Not determined             | Evaporation Rate        | Not determined |
| Flash Point                                 | 27-28°C (81-82°F)          | 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: Ethyl alcohol: Rabbit: Draize: 500 mg/24H, Mild

**Skin**: Ethyl alcohol: Draize test, Rabbit: 20 mg/24H, Moderate

**Oral**: Ethyl alcohol: Rat: LD<sub>50</sub>: 7060 mg/kg; Mouse: LD<sub>50</sub>: 3450 mg/kg; Rabbit LD<sub>50</sub>: 6300 mg/kg

**Inhalation**: Ethyl alcohol: Mouse: LC<sub>50</sub>: 39 g/m<sup>3</sup>/4H; Rat: LC<sub>50</sub>: 20000 ppm/10H

### **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.

Ethyl alcohol: Fish: Rainbow trout (*Oncorhynchus mykiss*): LC<sub>50</sub> = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3°C; Fish: Rainbow trout (*Oncorhynchus mykiss*): LC<sub>50</sub> = 11200 mg/L; 24 Hr; Bacteria (*Phytobacterium* 

phosphoreum):  $EC_{50} = 34900 \text{ mg/L}$ ; 5-30 min; Microtox test

## **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**: Flammable liquid, n.o.s. (Contains Ethanol)

**DOT Hazard Class**: 3 **UN Number**: UN 1993 **Packing Group**: III

**International Air** Proper Shipping Name: Flammable liquid, n.o.s. (Contains Ethanol)

DOT Hazard Class: 3 UN Number: UN 1993 Packing Group: III

**U.S. Domestic Ground Proper Shipping Name**: Flammable liquid, n.o.s. (Contains Ethanol)

DOT Hazard Class: 3 UN Number: UN 1993 Packing Group: III

**U.S. Domestic Air Proper Shipping Name**: Flammable liquid, n.o.s. (Contains Ethanol)

**DOT Hazard Class**: 3 **UN Number**: UN 1993 **Packing Group**: III

**Emergency Response Guide: 127** 

This data provided for information only. The description shown may not apply to all shipping situations. Consult TDG or 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 – YES; Chronic – YES; Fire – YES; 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: Ethyl alcohol can be found on the state Right-to-Know lists of California,

Massachusetts, Minnesota, New Jersey and Pennsylvania. Ammonium hydroxide can be found on the state Right-to-Know lists of California, Massachusetts, New Jersey and Pennsylvania.

California Proposition 65: WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause developmental reproductive toxicity.

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: B2, D2A

Canada Ingredient Disclosure List: Ethyl alcohol and ammonia are listed on the Ingredient Disclosure List.

#### **Section 16: Other Information**

#### Abbreviations and acronyms used: ACGIH American Conference of Governmental Industrial Hygienists

| 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                           |
| <b>EINECS</b> | 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 30 November 2012.

DISCLAIMER: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this MSDS will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product.

| Such conditions should comply with all Federal Regulations concerning the Product. It must be recognized that the physical and chemical properties |
|--|
| of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The               |
| information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and  |
| shall not establish a legally valid contractual relationship. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF                      |
| MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR                         |
| THE PRODUCT TO WHICH INFORMATION REFERS.   |
| ***************************************  |
| THIS IS THE LAST PAGE OF THIS MSDS   |
| *************************************  |