1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the preparation

Product Name: "SPILL-X-C Agent"
Chemical Name: N/A – This is a mixture/preparation.
CAS No.: N/A – This is a mixture/preparation.
Chemical Formula: N/A – This is a mixture/preparation.
EINECS Number: N/A – This is a mixture/preparation.

1.2. Use of the preparation

The intended or recommended use of this preparation is as an AID IN CONTROLLING AND CLEANING UP CAUSTIC SPILLS.

1.3. Company identification

Manufacturer/Supplier: ANSUL INCORPORATED
Address: One Stanton Street, Marinette, WI 54143-2542
Prepared by: Safety and Health Department
Phone: 715-735-7411
Internet/Home Page: http://www.ansul.com
Date of Issue: September, 2004

1.4. Emergency telephone

CHEMTREC 800-424-9300 or 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1. Ingredient Name:

- Citric Acid.
- Fumaric Acid.
- Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth).
- J550 Water Lock Polymer.
- Petro AGS.
- Sodium alkylnapthalenesulfonate.

2.2. Chemical Formula:

- C6H8O7
- C4H4O4
- Mg2Al(SiO4)2
- Acrylate polymer.
- Not available.
- Sodium alkylnapthalenesulfonate.

2.3. CAS No.:

- 77-92-9
- 110-17-8
- 8031-19-3
- Not available.
- Not available.

2.4. EINECS Number:

- 201-069-1
- (b)
- (a)
- (a)
- (a)

2.5. Concentration, Wt %:

- 55-65 %
- 15-20 %
- 15-20 %
- 2-4 %
- <1 %

(a) EINICS does not include synthetic polymers (these are registered in EINICS under their building blocks, monomers.). See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.
(b) EINICS does not include most naturally occurring raw materials. See: 67/548/EEC, article 13; 79/331/EC; and 81/437/EC.

NOTE: Unless a component presents a severe hazard, it does not need to be considered in the MSDS if the concentration is less than 1%. [According to Directive 1999/45/EC.]

3. HAZARDS IDENTIFICATION

FOR HUMANS:

Product:

EU Classification: XI
R Phrases: 36  Irritant.
S Phrases: 2  Irritating to eyes.

Components:

Citric Acid:
EU Classification: XI
R Phrases: 36  Irritant.
S Phrases: 2  Irritating to eyes.

Fumaric Acid:
EU Classification: XI
R Phrases: 36  Irritant.
S Phrases: 2  Irritating to eyes.

JS50 Water Lock Polymer:
EU Classification: XI
R Phrases: 36  Irritant.
S Phrases: 2  Irritating to eyes.

Limit Values for Exposure:

Nuisance dust limit: OSHA TWA: 15 mg/m³.
ACGIH TLV-TWA: 10 mg/m³.
Fumaric Acid: Dust limit: MAK (DE): 6 mg/m³.

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:
Eye Contact: Irritating to the eyes.
Skin Contact: May cause irritation.
Inhalation: Irritating to nasal and respiratory passages.
Ingestion: May cause gastrointestinal irritation.

Chronic Overexposure: Prolonged and continuous exposure to dust may result in cough and sputum production indistinguishable from that which occurs with cigarette smoking.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Reactive airway.

FOR ENVIRONMENT:
Keep from entering surface water. For harm to the environment, see Heading 12.

4. FIRST AID MEASURES

Eye Contact: Flush with large amounts of water for minimum of 15 minutes while holding lids open. Seek medical attention.
Skin Contact: Wash exposed areas with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical attention.
Inhalation: Remove from exposure. If irritation persists, seek medical attention.
Ingestion: If individual is conscious, give large amounts of water and induce vomiting. Immediately seek medical attention.
5. **FIRE-FIGHTING MEASURES**

There are NO extinguishing media which must not be used for safety reasons.
NO special protective equipment is needed for fire-fighters.

6. **ACCIDENTAL RELEASE MEASURES**

For personal protection: Prevent skin and eye contact. See Heading 8.
Clean up: Sweep up, the product can be recovered if it is not contaminated. If it is contaminated, place in closed containers for disposal. See Heading 13.
Keep from entering surface water. For harm to the environment see Heading 12.

7. **HANDLING AND STORAGE**

7.1. **Handling**
Care should be taken in handling all chemical substances and preparations.
Do not mix with other Spill Control Agents.
See incompatibility information in Heading 10.

7.2. **Storage**
NO special conditions are needed for safe storage.
See incompatibility information in Heading 10.
Store in original container or SPILL-GUN applicator. Keep tightly closed until used.
Keep from entering surface water. For harm to the environment see Heading 12.

7.3. **Specific use**
The intended or recommended use of this preparation is as an AID IN CONTROLLING AND CLEANING UP CAUSTIC SPILLS.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. **Exposure limit values**
Limit Values for Exposure:
Nuisance dust limit: OSHA TWA: 15 mg/m³.
ACGIH TLV-TWA: 10 mg/m³.
Fumaric Acid: Dust limit:
MAK (DE): 6 mg/m³.

8.2. **Exposure controls**

8.2.1. **Occupational exposure controls**

8.2.1.1. **Respiratory protection**
Mechanical ventilation is recommended. Dust mask where dustiness is prevalent. Use mechanical filter respirator if exposure is prolonged.

8.2.1.2. **Hand protection**
Use chemical resistant gloves when handling the preparation.

8.2.1.3. **Eye protection**
Chemical goggles are recommended.

8.2.1.4. **Skin protection**
Use long sleeved work clothes.

8.2.2. **Environmental exposure controls**
Keep from entering surface water. For harm to the environment, see Heading 12.
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information
Appearance: White to tan powder.
Odor: None.

9.2. Important health, safety, and environmental information
pH: Not determined.
Boiling point/boiling range: Not applicable.
Flash point: Nons to boiling.
Flammability (solid/gas): Not flammable.
Explosive properties: Not explosive.
Oxidizing properties: Not an oxidizer.
Vapor Pressure: Not applicable.
Relative Density (Water = 1): Not applicable.
Solubility:
- Water solubility: Less than 75%.
- Fat solubility: Not soluble.
Partition coefficient, n-octanol/water: Not determined.
Viscosity: Not applicable.
Vapor density (Air = 1): Not applicable.
Evaporation rate: Not applicable.

9.3. Other information
Auto-ignition temperature: Does not ignite.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid
There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

10.2. Materials to avoid
Avoid strong bases, particularly in closed systems.

10.3. Hazardous decomposition products
Normally stable.
Hazardous polymerization will NOT occur.
Combustion or decomposition products include Carbon monoxide and carbon dioxide in fire conditions.

11. TOXICOLOGICAL INFORMATION

Product:
This product has not been tested for toxicological effects.

Components:
Citric Acid:
Irritation Data:
- Skin (rabbit) 500 mg/24 hrs Mild
- Eye (rabbit) 750 mg/24 hrs Severe
Toxicity Data:
- Oral (rat) LD50 3 g/kg.
- Oral (rat) LD50 12 g/kg. [EINICS]
- Oral (mouse) LD50 5040 mg/kg.
Ames Test: Negative. [EINICS]
Reproduction:
- At 600 mg/kg/day, no effects were detected. [EINICS]
Developmental/Teratogenicity: At >241 mg/kg/day, no adverse effects were noted. [EINICS]
Target Organs: Lungs and gastrointestinal.

Fumaric Acid:
Irritation Data:
- Skin (rabbit) 500 mg/24 hrs Mild
- Eye (rabbit) 100 mg/24 hrs Moderate.
Toxicity Data:
- Oral (rat) LD50 9300 mg/kg.
- Oral (rat) LD50 10000 mg/kg. [EINICS]
- Dermal (rabbit) LD50 >20000 mg/kg. [EINICS]
Ames Test: Negative. [EINICS]
Reproduction:
- At 400 mg/kg/day, no effects were detected. [EINICS] effects were noted. [EINICS]
Target Organs: Gastrointestinal, liver, blood.
J550 Water Lock Polymer:
Toxicity Data: Oral (rat) LD₅₀ 11,000 mg/kg.
Manufacturer warns about eye, nasal, and bronchial irritation.
Magnesium Aluminum Silicate (Attapulgite Clay or Fuller’s Earth):
Irritation Data: Irritating to eyes, skin, mucous membranes.
Target Organs: Lungs.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity
Citric Acid:
Acute Toxicity:
Fish: Leuciscus idus: LC₅₀ (96 hrs) = >440-760 mg/L.
Lapomis macrochirius: LC₅₀ (96 hrs) = 1516 mg/L.
Invertebrates: Daphnia magna: EC₅₀ (72 hrs) = about 120 mg/L.
Algae: Scenedesmus quadricauda: EC₃ (7 day) = 640 mg/L.

12.2. Mobility
Not determined.

12.3. Persistence and degradability
Citric acid:
Biodegradation in sewage was 84% in 24 hours.
BOD₅: 526 mgO₂/L.
COD: 729 mg/g substance.
Fumaric acid:
Photodegradation: 50% after 6.5 days.
Biodegradation in sewage was 98% in 21 days.
BOD₅: 0.57 mgO₂/L.

12.4. Bioaccumulative potential
Not determined.

12.5. Other adverse effects
Ozone depletion potential: None.
Photochemical ozone creation potential: None
Global warming potential: None

13. DISPOSAL CONSIDERATIONS
Keep from entering surface water. For harm to the environment, see Heading 12.
Dispose of in compliance with national, regional, and local provisions that may be in force.

14. TRANSPORT INFORMATION
Hazard Class or Division: Not a hazardous substance.
For additional transport information, contact Ansul Incorporated.
Keep from entering surface water. For harm to the environment, see Heading 12.
15. REGULATORY INFORMATION

Product:
- EU Classification: Xi
- R Phrases: 36
- S Phrases: 2

Limit Values for Exposure:
- Nuisance dust limit: OSHA TWA: 15 mg/m³
- ACIGI TLV-TWA: 10 mg/m³
- Fumeric Acid: Dust limit: MAK (DE): 6 mg/m³

EINECS Status: All components are included in EINECS inventories or are exempt from listing.
EPA TSCA Status: All components are included in TSCA inventories or are exempt from listing.
Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.
Restrictions on Marketing and Use: None are known.
Refer to any other national measures that may be relevant.

16. OTHER INFORMATION

(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

| HEALTH | 1 | 4. Severe Hazard |
| FLAMMABILITY | 0 | 3. Serious Hazard |
| REACTIVITY | 0 | 2. Moderate Hazard |
| 1. Slight Hazard |
| 0. Minimal Hazard |

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated: D2B – Irritating to eyes.

Format is from directive 2001/58/EC.
EINECS data is from http://exb.jrc.it/existing-chemicals/
Data used to compile the data sheet is from Ansl Material Safety Data Sheet, June, 2000.
The EU Classification has been changed in accordance with Directive 1999/45/EC and information in the EINICS ESIS files (Existing Substances Information System).
Toxicological information added from the EINICS ESIS (Existing Substances Information System).
A rating under WHMIS has been added, following the Canadian guidelines.

17. DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

MSDS available at http://www.ansul.com

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