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

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**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

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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- 2.1.** Ingredient Name: Citric Acid.  
Chemical Formula:  $C_6H_8O_7$ .  
CAS No.: 77-92-9.  
EINECS Number: 201-069-1.  
Concentration, Wt %: 55-65 %.  
Hazard Identification: See Heading 3.
- Ingredient Name: Fumaric Acid.  
Chemical Formula:  $C_4H_4O_4$ .  
CAS No.: 110-17-8.  
EINECS Number: 203-743-0.  
Concentration, Wt %: 15-20 %.  
Hazard Identification: See Heading 3.
- Ingredient Name: Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth).  
Chemical Formula:  $Mg_xAl_y(SiO_4)_z$ .  
CAS No.: 8031-18-3.  
EINECS Number: (b).  
Concentration, Wt %: 15-20 %.  
Hazard Identification: See Heading 3.
- Ingredient Name: J550 Water Lock Polymer.  
Chemical Formula: Acrylate polymer.  
CAS No.: Not available.  
EINECS Number: (a).  
Concentration, Wt %: 2-4 %.  
Hazard Identification: See Heading 3.
- Ingredient Name: Petro AGS.  
Chemical Formula: Sodium alkylnaphthalenesulfonate.  
CAS No.: Not available.  
EINECS Number: (a).  
Concentration, Wt %: <1 %.  
Hazard Identification: See Heading 3.

(a) EINECS does not include synthetic polymers (these are registered in EINECS 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; 79/831/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	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

##### Components:

##### Citric Acid:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

##### Fumaric Acid:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

##### J550 Water Lock Polymer:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Limit Values for Exposure:

Nuisance dust limit: OSHA TWA: 15 mg/m<sup>3</sup>.  
ACGIH TLV-TWA: 10 mg/m<sup>3</sup>.

Fumaric Acid: Dust limit:  
MAK (DE): 6 mg/m<sup>3</sup>.

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.

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## 5. FIRE-FIGHTING MEASURES

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

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## 6. ACCIDENTAL RELEASE MEASURES

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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.

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## 7. HANDLING AND STORAGE

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### 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Exposure limit values

Limit Values for Exposure:

Nuisance dust limit:	OSHA TWA:	15 mg/m <sup>3</sup> .
	ACGIH TLV-TWA:	10 mg/m <sup>3</sup> .
Fumaric Acid: Dust limit:		
	MAK (DE):	6 mg/m <sup>3</sup> .

### 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: None 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 ug/24 hrs	Severe
Toxicity Data:	Oral (rat) LD <sub>50</sub>	3 g/kg.	
	Oral (rat) LD <sub>50</sub>	12 g/kg. [EINICS]	
	Oral (mouse) LD <sub>50</sub>	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) LD <sub>50</sub>	9300 mg/kg.	
	Oral (rat) LD <sub>50</sub>	10000 mg/kg. [EINICS]	
	Dermal (rabbit) LD <sub>50</sub>	>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) LD<sub>50</sub> 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 macrochirus:	LC50 (96 hrs) = 1516 mg/L.
Invertebrates:	Daphnia magna:	EC50 (72 hrs) = about 120 mg/L.
Algae:	Scenedeamus 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 mgO<sub>2</sub>/L.

COD: 728 mg/g substance.

## Fumaric acid:

Photodegradation: 50 % after 6.5 days.

Biodegradation in sewage was 98 % in 21 days.

BOD5: 0.57 mgO<sub>2</sub>/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	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
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## Limit Values for Exposure:

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	ACGIH TLV-TWA:	10 mg/m <sup>3</sup> .
Fumaric Acid: Dust limit:		
	MAK (DE):	6 mg/m <sup>3</sup> .

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:	<u>1</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	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 Ansul Material Safety Data Sheet, June, 2000.

The EU Classification has been changed in accordance with Directive 1999/45/EC and information in the EINECS ESIS files (Existing Substances Information System).

Toxicological information added from the EINECS 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>