


**DuPont™ Acid-A-Foam™ XL**

Version 2.0

Revision Date 08/31/2009

Ref. 130000030737

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Acid-A-Foam™ XL  
 MSDS Number : 130000030737  
 Product Use : Cleaning agent

Manufacturer : DuPont  
 1007 Market Street  
 Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
 Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
 Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Potential Health Effects

Skin : May cause skin irritation. May cause burns or external ulcers.

Eyes : Eye irritation May cause burns or external ulcers.

Inhalation : May cause: Respiratory tract damage

Ingestion : Effects due to ingestion may include: Headache, Nausea, Weakness, Gross overexposure may cause:, Internal bleeding, Fatality.

## Target Organs

Phosphoric acid : Gastro-intestinal system

## Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Water	7732-18-5	>=75%
Sulfamic acid	5329-14-6	5 - 10 %
Phosphoric acid	7664-38-2	5 - 10 %
Glycolic acid	79-14-1	1 - 5 %
Surfactants		1 - 5 %

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**SECTION 4. FIRST AID MEASURES**

- Skin contact : In case of contact, immediately flush skin with plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Consult a physician if necessary.
- Eye contact : Rinse immediately with plenty of water and seek medical advice.
- Inhalation : Move to fresh air. Consult a physician if necessary.
- Ingestion : Call a poison control centre or doctor for treatment advice. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Flammable Properties
- Flash point : closed cup  
does not flash
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Firefighting Instructions : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment. Evacuate personnel to safe areas.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Wear suitable protective equipment. Wear respiratory protection.
- Spill Cleanup : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Avoid inhalation, ingestion and contact with skin and eyes. Do not get on clothing. Wash off with plenty of water. Wash clothing after use. Do not breathe vapours or spray mist. When using do not eat, drink or smoke.



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Storage : Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Keep container closed when not in use.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Provide adequate ventilation. Wear NIOSH approved respiratory protection as appropriate.

Hand protection : Material: Impervious gloves

Eye protection : Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.

Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines

Exposure Limit Values

Sulfamic acid

AEL \* (DUPONT) 0.5 mg/m3 8 & 12 hr. TWA

Phosphoric acid

PEL (Permissible (OSHA) 1 mg/m3 8 hr. TWA

Exposure Limit)

TLV (ACGIH) 3 mg/m3 STEL

TLV (ACGIH) 1 mg/m3 TWA

AEL \* (DUPONT) 1 mg/m3 8 & 12 hr. TWA

Glycolic acid

AEL \* (DUPONT) 10 mg/m3 8 & 12 hr. TWA

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : liquid  
 Color : yellow  
 Odor : slight, musty  
 pH : 0.5 - 1.5  
 Freezing point : 0 °C (32 °F)  
 Boiling point : 96 °C (205 °F)  
 % Volatile : 71 - 74 %  
 Density : 8.26 - 9.26 lb/gal  
 Density : 0.99 - 1.11 g/ml  
 Specific Gravity : 1.05

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Water solubility : (Water=1.0)  
: completely soluble 100%

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid : Stable at normal temperatures and storage conditions.

Incompatibility : alkaline substances chlorinated compounds oxidizers

Hazardous decomposition products : Decomposition does not occur under normal use conditions.

Hazardous reactions : Polymerization will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Sulfamic acid

Oral LD50 : 1,050 mg/kg, guinea pig

Skin irritation : Species: animals (unspecified species)  
Corrosive

Eye irritation : Species: rabbit  
Corrosive

Phosphoric acid

Dermal LD50 : 2,740 mg/kg, rabbit

Oral LD50 : 1,530 mg/kg, rat  
Haemorrhaging

Inhalation 1 h LC50 : > 0.85 mg/l, rat  
no data available

Skin irritation : Species: animals (unspecified species)  
Corrosive

Eye irritation : Species: animals (unspecified species)  
Corrosive

Glycolic acid

Oral LD50 : 1,357 mg/kg, rat

Inhalation 4 h LC50 : > 5.2 mg/l female, rat aerosol

Skin irritation : Acute dermal irritation/corrosion  
Species: rabbit, Corrosive


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Eye irritation	:	Acute eye irritation/corrosion Species: rabbit, Corrosive
Repeated dose toxicity	:	Oral, rat Weight loss, altered blood chemistry, Increased mortality or reduced survival Inhalation, rat
Mutagenicity	:	Did not cause genetic damage in animals., Did not cause genetic damage in cultured bacterial cells.
Reproductive toxicity	:	Animal testing showed no reproductive toxicity.
Teratogenicity	:	Several developmental toxicity studies have been conducted with ethylene glycol (metabolized to glycolic acid) or with glycolic acid in mammals. The majority of studies conducted with rodents demonstrate developmental toxicity only at high dietary exposure levels which also produce other toxic effects in the adult animal. Based on the weight of evidence, glycolic acid is not considered a unique developmental hazard to the embryo.

**SECTION 12. ECOLOGICAL INFORMATION**
**Aquatic Toxicity**
**Sulfamic acid**

96 h LC50 : Pimephales promelas (fathead minnow) 14.2 mg/l

**Phosphoric acid**

LC50 : Gambusia affinis (Mosquito fish) &gt; 100 mg/l

**Glycolic acid**

96 h LC50 : Fathead minnow 164 mg/l

48 h LC50 : Lepomis macrochirus (Bluegill sunfish) 93 mg/l

EC50 : Algae 21.6 mg/l

48 h EC50 : Daphnia 141 mg/l

**Environmental Fate**
**Glycolic acid**

Biodegradability : Readily biodegradable, according to appropriate OECD test.


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**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : In accordance with local and national regulations. Do not flush into surface water or sanitary sewer system. Do not contaminate water, food or feed by disposal.

**SECTION 14. TRANSPORT INFORMATION**

DOT	UN-Number	: 3264
	Proper shipping name	: Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Phosphoric acid)
	Class	: 8
	Packaging group	: II
	Labelling No.	: 8
IATA_C	Reportable Quantity	: 5,000 lbs (Orthophosphoric acid)
	UN-Number	: 3264
	Proper shipping name	: Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Phosphoric acid)
	Class	: 8
	Packaging group	: II
IMDG	Labelling No.	: 8
	UN-Number	: 3264
	Proper shipping name	: Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Phosphoric acid)
	Class	: 8
	Packaging group	: II
	Labelling No.	: 8

**SECTION 15. REGULATORY INFORMATION**

TSCA Status	: Listed.
SARA 313 Regulated Chemical(s)	: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
CERCLA Reportable Quantity	: 83,333 lbs Based on the percentage composition of this chemical in the product.: Orthophosphoric acid
California Prop. 65	: WARNING! This product contains a chemical known to the State of California to cause cancer. Dichloroacetic acid
PA Right to Know Regulated Chemical(s)	: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):



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Orthophosphoric acid

NJ Right to Know : Substances on the New Jersey Workplace Hazardous Substance List present  
Regulated Chemical(s) at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Orthophosphoric acid

**SECTION 16. OTHER INFORMATION**

Health : HMIS 2  
Flammability : 0  
Reactivity/Physical hazard : 0

PPE : Personal Protection rating to be supplied by user depending on use conditions.

MSDS preparation date : 08/31/2009

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Do not use for medical-clinical purposes.

Contact person : MSDS Coordinator, DuPont Chemical Solutions Enterprise, Wilmington, DE 19898, (800) 441-7515

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