



DuPont™ Acid-A-Foam™ XL

Version 2.0

Revision Date 03/09/2015

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
 Product Use : Cleaning agent, For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses
 Manufacturer/Supplier : DuPont
 1007 Market Street
 Wilmington, DE 19898
 United States of America

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

Product hazard category
 Skin corrosion : Category 1A
 Serious eye damage/eye irritation : Category 1

Label content

Pictogram :



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Signal word : Danger

Hazardous warnings : Causes severe skin burns and eye damage.

Hazardous prevention measures : Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 20.5 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Sulphamidic acid	5329-14-6	10 - 20 %
Phosphoric acid	7664-38-2	5 - 10 %
Polyethylene oxide monoisodecyl ether	61827-42-7	1 - 5 %

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Glycolic acid	79-14-1	1 - 5 %
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SECTION 4. FIRST AID MEASURES

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : Move to fresh air. Consult a physician if necessary.
- 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.
- Ingestion : Call a poison control center 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.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : No applicable data available.



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Special protective equipment for firefighters : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.

Further information : 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.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

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 : No applicable data available.

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.

Handling (Physical Aspects) : No applicable data available.

Dust explosion class : No applicable data available.

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

Storage period : No applicable data available.

Storage temperature : No applicable data available.


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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Provide adequate ventilation. Use NIOSH approved respiratory protection.

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

AEL * (DUPONT) 1.5 mg/m3 15 minute TWA

Phosphoric acid

Permissible exposure limit: (OSHA) 1 mg/m3 8 hr. TWA

TLV (ACGIH) 3 mg/m3 STEL

TLV (ACGIH) 1 mg/m3 TWA

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

AEL * (DUPONT) 3 mg/m3 15 minute TWA

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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**Appearance (Physical state, form, colour, etc.)**

Form	: liquid
Color	: yellow
Odor	: slight, musty
Odor threshold	: No applicable data available.
pH	: 0.5 - 1.5
Melting point/freezing point	: Freezing point 0 °C (32 °F)
Boiling point/boiling range	: Boiling point 96 °C (205 °F)
Flash point	: closed cup does not flash
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.

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Density	: 8.26 - 9.26 lb/gal
Specific gravity (Relative density)	: 1.05 (Water=1.0)
Bulk density	: No applicable data available.
Water solubility	: completely soluble 100%
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: No applicable data available.
Viscosity	: No applicable data available.
% Volatile	: 71 - 74 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	: Polymerization will not occur.
Conditions to avoid	: No applicable data available.
Incompatible materials	: alkaline substances chlorinated compounds, oxidizers
Hazardous decomposition products	: Decomposition does not occur under normal use conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Sulphamidic acid	
Dermal LD50	: > 2,000 mg/kg , Rat

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Oral LD50 : > 2,000 mg/kg , Rat

Skin irritation : Severe skin irritation, Rabbit

Eye irritation : Eye irritation, Rabbit

Repeated dose toxicity : Oral
Rat
- Method: OECD Test Guideline 408
No toxicologically significant effects were found.

Mutagenicity : Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Phosphoric acid

Inhalation : no data available

Dermal LD50 : > 3,160 mg/kg , Rabbit

Oral LD50 : 2,600 mg/kg , Rat

Skin irritation : Causes burns., Rabbit

Eye irritation : Risk of serious damage to eyes., Not tested on animals

Skin sensitization : no data available

Repeated dose toxicity : Oral
Rat
-
No toxicologically significant effects were found.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Evidence suggests this substance does not cause genetic damage in animals.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

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Polyethylene oxide monoisodecyl ether

- Dermal LD50 : > 2,000 mg/kg , Rabbit
- Oral LD50 : > 2,000 mg/kg , Rat
- Skin irritation : Severe skin irritation, Rabbit
- Eye irritation : Irreversible effects on the eye, Rabbit
- Skin sensitization : Does not cause skin sensitisation., Guinea pig
- Repeated dose toxicity : Ingestion
Rat
- 90 d
NOAEL: 500 mg/kg
LOAEL: > 500 mg/kg
No toxicologically significant effects were found.
- Carcinogenicity : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity : Animal testing did not show any mutagenic effects.
Overall weight of evidence indicates that the substance is not mutagenic.
- Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
No effects on or via lactation
- Teratogenicity : Animal testing showed no developmental toxicity.

Glycolic acid

- Inhalation 4 h LC50 : 3.6 mg/l , Rat
Dust
- Dermal Acute toxicity estimate : > 5,000 mg/kg , human
- Oral LD50 : 2,040 mg/kg , Rat
- Skin irritation : Causes burns., Rabbit


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Eye irritation	:	Corrosive, Rabbit
Skin sensitization	:	Does not cause skin sensitisation., Guinea pig
Repeated dose toxicity	:	Oral Rat - NOAEL: 150 mg/kg Method: OECD Test Guideline 408 Organ weight changes, Kidney effects
Carcinogenicity	:	Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	:	No toxicity to reproduction Animal testing showed no reproductive toxicity.
Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.

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 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
Sulphamidic acid

96 h LC50	:	Pimephales promelas (fathead minnow) 70.3 mg/l OECD Test Guideline 203 Information given is based on data obtained from similar substances.
72 h ErC50	:	Desmodesmus subspicatus (green algae) 48 mg/l OECD Test Guideline 201


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72 h NOEC : Desmodesmus subspicatus (green algae) 18 mg/l OECD Test Guideline 201

48 h EC50 : Daphnia magna (Water flea) 71.6 mg/l OECD Test Guideline 202

Phosphoric acid

96 h LC50 : Oryzias latipes (Orange-red killifish) 75.1 mg/l OECD Test Guideline 203

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 100 mg/l OECD Test Guideline 201

72 h NOEC : Pseudokirchneriella subcapitata (green algae) 100 mg/l OECD Test Guideline 201

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Polyethylene oxide monoisodecyl ether

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 6.4 mg/l

72 h ErC50 : Desmodesmus subspicatus (green algae) 45 mg/l

72 h NOEC : Desmodesmus subspicatus (green algae) 10 mg/l

48 h EC50 : Aquatic invertebrates 5.6 mg/l

Glycolic acid

96 h LC50 : Pimephales promelas (fathead minnow) 164 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 44 mg/l OECD Test Guideline 201

72 h NOEC : Pseudokirchneriella subcapitata (green algae) 20 mg/l OECD Test Guideline 201

48 h EC50 : Daphnia magna (Water flea) 141 mg/l OECD Test Guideline 202

Environmental Fate

Sulphamidic acid

Biodegradability : Biodegradable
Not applicable



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Phosphoric acid

Biodegradability

: Biodegradable

The methods for determining biodegradability are not applicable to inorganic substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : 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.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

DOT	UN number	: 3264
	Proper shipping name	: Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Phosphoric acid)
	Class	: 8
	Packing group	: II
	Labelling No.	: 8
	Reportable Quantity	: 5000 lbs Phosphoric acid
IATA_C	UN number	: 3264
	Proper shipping name	: Corrosive liquid, acidic, inorganic, n.o.s. (Sulfamic acid, Phosphoric acid)
	Class	: 8
	Packing group	: II
	Labelling No.	: 8
IMDG	UN number	: 3264
	Proper shipping name	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfamic acid, Phosphoric acid)
	Class	: 8
	Packing group	: II
	Labelling No.	: 8

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SECTION 15. REGULATORY INFORMATION

TSCA	:	On the inventory, or in compliance with the inventory
SARA 313 Regulated Chemical(s)	:	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.
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): Phosphoric acid
NJ Right to Know Regulated Chemical(s)	:	Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Phosphoric acid
CERCLA Reportable Quantity	:	83333 lbs Based on the percentage composition of this chemical in the product.: Phosphoric acid
California Prop. 65	:	WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

Acid-A-Foam™ is a trademark of Neogen Corporation or its affiliates and is used under license to DuPont. The DuPont Oval Logo® and DuPont™ are registered trademarks or trademarks of E. I. du Pont de Nemours and Company or its affiliates. Do not use for medical-clinical purposes.

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Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 19898, (800) 441-7515

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,



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transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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