


**DuPont™ AcidEdge™**

Version 2.0

Revision Date 08/31/2009

Ref. 130000031187

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™ AcidEdge™  
 Tradename/Synonym : DuPont™ AcidEdge™ Multipurpose Non-foaming Cleaner and Tray Wash

MSDS Number : 130000031187  
 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	>60%
Glycolic acid	79-14-1	1 - 5 %
Phosphoric acid	7664-38-2	15 - 40 %

**SECTION 4. FIRST AID MEASURES**

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



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**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

Phosphoric acid

PEL (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

Glycolic acid

AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA
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\* 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	: clear, yellow
Odor	: musty
pH	: 1 - 2
Freezing point	: 0 °C (32 °F)
Boiling point	: > 100 °C (> 212 °F)
% Volatile	: 63 - 65 %
Density	: 10.18 - 10.43 lb/gal
Density	: 1.22 - 1.25 g/ml
Specific Gravity	: 1.24
	(Water=1.0)
Water solubility	: completely soluble 100%

**SECTION 10. STABILITY AND REACTIVITY**

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- 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**

## 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
- 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.

## Phosphoric acid

- Dermal LD50 : 2,740 mg/kg, rabbit
- Oral LD50 : 1,530 mg/kg, rat  
Haemorrhaging



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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

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity

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

Phosphoric acid

LC50

: Gambusia affinis (Mosquito fish) > 100 mg/l

Environmental Fate

Glycolic acid

Biodegradability

: Readily biodegradable, according to appropriate OECD test.

**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 : 1760

Proper shipping name : Corrosive liquids, n.o.s. (Phosphoric acid, Glycolic acid)

Class : 8

Packaging group : II

Labelling No. : 8

Reportable Quantity : 5,000 lbs (Orthophosphoric acid)

IATA\_C UN-Number : 1760

Proper shipping name : Corrosive liquid, n.o.s. (Phosphoric acid, Glycolic acid)

Class : 8



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IMDG	Packaging group	: II
	Labelling No.	: 8
	UN-Number	: 1760
	Proper shipping name	: Corrosive liquid, n.o.s. (Phosphoric acid, Glycolic 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	: 14,818 lbs Based on the percentage composition of this chemical in the product.: Orthophosphoric 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): Orthophosphoric 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): Orthophosphoric acid

**SECTION 16. OTHER INFORMATION**

	HMIS
Health	: 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

# Material Safety Data Sheet



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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, 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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