

**DuPont™ StoneTech® Professional Restore™ Concentrate**

Version 3.0

Revision Date 02/14/2013

Ref. 130000027558

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™ StoneTech® Professional Restore™ Concentrate
MSDS Number	:	130000027558
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)
Other information	:	professional use

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin	:	Causes severe burns. May cause: Corrosion with pain, ulceration or blisters, cracking or peeling of skin..
Eyes	:	Corrosive, may cause permanent eye injury if not promptly treated. May cause: tearing, Pain, Redness, Swelling, Ulceration, visual impairment, Blindness.
Inhalation	:	May cause: Respiratory tract irritation, Central nervous system effects, dizziness, confusion, incoordination, drowsiness, or unconsciousness.
Ingestion	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Ingestion may cause irritation to mucous membranes., Gross overexposure may cause: Severe irritation of the mucous membranes causes vomiting, nausea and burns., Kidney damage.
Repeated exposure	:	Adverse effects from repeated exposure may include: Liver effects, Kidney effects, Spleen effects, Immune system effects

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Target Organ : 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 - 90 %
Phosphoric acid...%	7664-38-2	10 - 20 %
Glycolic acid	79-14-1	1 - 5 %

SECTION 4. FIRST AID MEASURES

- Skin contact : Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Symptoms may be delayed. Call a physician immediately.
- Ingestion : Call a physician or poison control centre immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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General advice : When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point : does not flash

Thermal decomposition : > 200 °C (> 392 °F)
To avoid thermal decomposition, do not overheat.
Thermal decomposition can lead to release of irritating gases and vapours.

Fire and Explosion Hazard : The product itself does not burn. Hazardous decomposition products formed under fire conditions. Hazardous combustion products Carbon dioxide (CO₂) Carbon monoxide Other hazardous decomposition products may be formed.

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Firefighting Instructions : Wear self contained breathing apparatus for fire fighting if necessary. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses.

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) : Evacuate personnel to safe areas. Use personal protective equipment. Ventilate the area.

Spill Cleanup : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

Accidental Release Measures : Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.



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SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
- Handling (Physical Aspects) : To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of irritating gases and vapours. Do not spray near open flame or heated surface.
- Storage : Keep tightly closed in a dry, cool and well-ventilated place. Protect from freezing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Use only in area provided with appropriate exhaust ventilation.
- Personal protective equipment
 - Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
 - Hand protection : Additional protection: Impervious gloves
 - Eye protection : Wear safety glasses or coverall chemical splash goggles.
 - Skin and body protection : Lightweight protective clothing

Exposure Guidelines
Exposure Limit Values

Phosphoric acid...%			
PEL:	(OSHA)	1 mg/m3	8 hr. TWA
TLV	(ACGIH)	3 mg/m3	STEL
TLV	(ACGIH)	1 mg/m3	TWA


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AEL *	(DUPONT)	1 mg/m3	8 & 12 hr. TWA
AEL *	(DUPONT)	3 mg/m3	15 minute 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
Odor	: mild
pH	: < 1
Boiling point/boiling range	: 100 °C (212 °F)
Specific gravity	: 1.08
Water solubility	: completely soluble

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Hazardous decomposition products	: Carbon dioxide , Carbon monoxide Incompletely burned carbon products Other hazardous decomposition products may be formed.

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SECTION 11. TOXICOLOGICAL INFORMATION

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Skin irritation : Causes burns., Not tested on animals

Phosphoric acid...%

Dermal LD50 : 1,260 mg/kg , rabbit

Oral LD50 : 301 - 2,000 mg/kg , rat

Inhalation 4 h LC50 : 0.9615 mg/l , rat
Dust

Eye irritation : Corrosive, rabbit

Repeated dose toxicity : Oral
rat

No toxicologically significant effects were found.

Inhalation
rat

No toxicologically significant effects were found.

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

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Glycolic acid

Oral LD50 : 2,040 mg/kg (70% solution), rat

Inhalation 4 h LC50 : 3.6 mg/l , male, rat

Eye irritation : Corrosive, rabbit

Skin sensitization : Did not cause sensitisation on laboratory animals., guinea pig


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Repeated dose toxicity	: Oral rat
	Weight loss
	Inhalation rat
	Liver effects
Mutagenicity	: Did not cause genetic damage in animals. Did not cause genetic damage in cultured mammalian cells. 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	
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) 77.9 mg/l OECD Test Guideline 201
72 h NOEC	: Pseudokirchneriella subcapitata (green algae) 77.5 mg/l OECD Test Guideline 201
48 h EC50	: Daphnia magna (Water flea) > 376 mg/l OECD Test Guideline 202


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Glycolic acid

96 h LC50	:	Pimephales promelas (fathead minnow) 164 mg/l
72 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 22.5 mg/l
48 h EC50	:	Daphnia magna (Water flea) 141 mg/l

Environmental Fate

Glycolic acid

Biodegradability	:	Readily biodegradable, according to appropriate OECD test.
Bioaccumulation	:	Bioaccumulation is unlikely.
Additional ecological information	:	No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN number	:	1760
	Proper shipping name	:	Corrosive liquids, n.o.s. (Phosphoric acid, Glycolic acid)
	Class	:	8
	Packing group	:	II
	Labelling No.	:	8
	Reportable Quantity	:	5,000 lbs Phosphoric acid
IATA_C	UN number	:	1760
	Proper shipping name	:	Corrosive liquid, n.o.s. (Phosphoric acid, Glycolic acid)
	Class	:	8
	Packing group	:	II
	Labelling No.	:	8
IMDG	UN number	:	1760


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Proper shipping name : Corrosive liquid, n.o.s. (Phosphoric acid, Glycolic acid)
 Class : 8
 Packing group : II
 Labelling No. : 8

DOT - packages with <= 1 liter per inner packaging and <= 30 kg gross may ship as Consumer Commodity.

IMDG - packages with <= 1 liter per inner packaging and <=30 kg gross may ship as Limited Quantity.

IATA - packages with <=0.1 liters per inner packaging and <=0.5 liter per outer package may ship as Limited Quantity.

IATA - limit is 30 liters per package.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory

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 : 27,746 lbs
 Based on the percentage composition of this chemical in the product.:
 Phosphoric 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): 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...%

SECTION 16. OTHER INFORMATION



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HMIS

Health	:	3
Flammability	:	0
Reactivity/Physical hazard	:	0
PPE	:	Personal Protection rating to be supplied by user depending on use conditions.

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

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