



DuPont™ StoneTech® Professional Klenzall™ Concentrate

Version 2.0

Revision Date 03/29/2010

Ref. 130000027635

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 Klenzall™ Concentrate
 MSDS Number : 130000027635
 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 : Causes burns.
- Eyes : Corrosive, may cause permanent eye injury if not promptly treated.
- Inhalation : Causes respiratory tract irritation.
- Ingestion : Severe irritation of the mucous membranes causes vomiting, nausea and burns. Aspiration hazard if swallowed - can enter lungs and cause damage.

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	80 - 96 %

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Alcohol Ethoxylate		1 - 5 %
2-Aminoethanol	141-43-5	1 - 5 %
1-Butoxy-2-propanol	5131-66-8	1 - 5 %
Ethoxylated Quaternary Amine		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.
- 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.
- General advice** : When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5. FIRE-FIGHTING 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.



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- 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.

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.



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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

2-Aminoethanol

PEL: (OSHA) 3 ppm 6 mg/m3 8 hr. TWA
 TLV (ACGIH) 3 ppm TWA
 TLV (ACGIH) 6 ppm STEL
 AEL * (DUPONT) 3 ppm 8 & 12 hr. TWA

1-Butoxy-2-propanol

AEL * (DUPONT) 50 ppm 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 : light yellow
 Odor : mild
 pH : 11.5 - 12.5
 Boiling point/boiling range : 100 °C (212 °F)
 Specific Gravity : 1.07

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
 Conditions to avoid : To avoid thermal decomposition, do not overheat.
 Incompatibility : Acids Strong oxidizing agents
 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 : Corrosive

Alcohol Ethoxylate

Dermal LD50 : 5,000 mg/kg , rat

Oral LD50 : 1,400 mg/kg , rat

Eye irritation : Corrosive, animals (unspecified species)

Skin sensitization : Did not cause sensitization on laboratory animals., animals (unspecified species)

Repeated dose toxicity : Dermal
rat
Skin effects, Thickening of skin

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

Reproductive toxicity : Evidence suggests the substance is not a reproductive toxin in animals.

2-Aminoethanol

Dermal LD50 : 1,025 mg/kg , rabbit

Oral LD50 : 1,515 - 3,320 mg/kg , animals (unspecified species)

Inhalation 1 h ALC : 0.58 mg/l , guinea pig

Eye irritation : Corrosive, animals (unspecified species)

Skin sensitization : animals (unspecified species)
Not a skin sensitizer.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Reproductive toxicity : No toxicity to reproduction



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Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.
1-Butoxy-2-propanol Dermal LD50	:	> 2,000 mg/kg , rabbit
Oral LD50	:	3,300 mg/kg , rat
Inhalation	:	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Eye irritation	:	Moderate eye irritation, rabbit
Skin sensitization	:	Animal test did not cause sensitization by skin contact., guinea pig
Repeated dose toxicity	:	Inhalation rat No toxicologically significant effects were found. Dermal multiple species Skin irritation, No toxicologically significant effects were found. Oral - drinking water 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. Information given is based on data obtained from similar substances.
Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.
Ethoxylated Quaternary Amine Oral LD50	:	580 mg/kg , rat
Eye irritation	:	Eye irritation, animals (unspecified species)
Mutagenicity	:	Did not cause genetic damage in cultured bacterial cells.

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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Alcohol Ethoxylate

96.0 h LC50 : Pimephales promelas (fathead minnow) 6.0 - 12.0 mg/l

EC50 : Algae 0.05 - 50.0 mg/l

48.0 h EC50 : Daphnia magna (Water flea) 2.9 - 8.5 mg/l

2-Aminoethanol

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 150 mg/l

72 h : Desmodesmus subspicatus (green algae) 15 mg/l

48 h : Daphnia magna (Water flea) 65 mg/l

1-Butoxy-2-propanol

96 h LC50 : Poecilia reticulata (guppy) > 500 mg/l

48 h LC50 : Daphnia magna (Water flea) > 1,000 mg/l

Ethoxylated Quaternary Amine

96 h LC50 : Fish (unspecified species) 11.82 mg/l

Environmental Fate

1-Butoxy-2-propanol

Biodegradability : Readily biodegradable.

Bioaccumulation : This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN-Number : 2491



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	Proper shipping name	:	Ethanolamine solutions
	Class	:	8
	Packing group	:	III
	Labelling No.	:	8
IATA_C	UN-Number	:	2491
	Proper shipping name	:	Ethanolamine solution
	Class	:	8
	Packing group	:	III
	Labelling No.	:	8
IMDG	UN-Number	:	2491
	Proper shipping name	:	Ethanolamine solution
	Class	:	8
	Packing group	:	III
	Labelling No.	:	8

DOT - packages with <= 5 liters per inner packaging and <= 30 kg gross may ship as a Consumer Commodity.
 IMDG - packages with <=5 liters per inner packaging and <=30 kg gross may ship as Limited Quantity.
 IATA - packages with <=0.5 liters per inner packaging and <=1 liter per outer package may ship as Limited Quantity.
 IATA - limit is 60 liters per package.

SECTION 15. REGULATORY INFORMATION

TSCA Status	:	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.

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| California Prop. 65 | : | Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known |
| 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): 2-Aminoethanol |
| 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): 2-Aminoethanol |

SECTION 16. OTHER INFORMATION

Dupont™ and Stone Tech® are registered trademarks or trademarks of E. I. du Pont de Nemours and Company or its affiliates.

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

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