

**DuPont™ Heavy Duty Stone & Tile Floor Cleaner**

Version 4.0

Revision Date 10/30/2013

Ref. 130000033977

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™ Heavy Duty Stone & Tile Floor Cleaner
Tradename/Synonym : DuPont Heavy Duty Stone & Tile Cleaner
MSDS Number : 130000033977
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

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Component	CAS-No.	Concentration
Water	7732-18-5	85 - 92 %
Alcohol Ethoxylate		1 - 5 %
2-Aminoethanol	141-43-5	1 - 5 %
1-(2-Butoxy-1-methylethoxy)propan-2-ol	29911-28-2	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. 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.
- 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

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- Thermal decomposition : > 200 °C (> 392 °F)
To avoid thermal decomposition, do not overheat.
- 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.

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.

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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****2-Aminoethanol**

PEL: (OSHA) 3 ppm 6 mg/m³ 8 hr. TWA

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TLV (ACGIH) 6 ppm STEL

TLV (ACGIH) 3 ppm TWA

AEL * (DUPONT) 3 ppm 8 & 12 hr. TWA

1-(2-Butoxy-1-methylethoxy)propan-2-ol

AEL * (DUPONT) 50 ppm 8 & 12 hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are

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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.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Heavy Duty Stone & Tile Floor Cleaner	
Skin irritation	: Corrosive
Alcohol Ethoxylate	
Dermal LD50	: 2,000 - 5,000 mg/kg , rabbit
Oral LD50	: 1,100 mg/kg , rat
Eye irritation	: Severe eye irritation, rabbit
Skin sensitization	: Does not cause skin sensitisation., guinea pig
Repeated dose toxicity	: Dermal

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rat

Skin effects, Thickening of skin

Oral
rat

No toxicologically significant effects were found.

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

Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

2-Aminoethanol

Dermal LD50 : 1,017 mg/kg , rabbit

Oral LD50 : 1,098 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 : Corrosive, rabbit

Skin sensitization : Does not cause skin sensitisation., guinea pig

Repeated dose toxicity : Oral
rat

No toxicologically significant effects were found.

Inhalation
rat

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.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

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1-(2-Butoxy-1-methylethoxy)propan-2-ol

Dermal LD50 : > 2,000 mg/kg , rat

Oral LD50 : 1,477 mg/kg , rat

Inhalation 4 h LC50 : 2.04 mg/l , rat

Eye irritation : rabbit
irritantSkin sensitization : human
Not a skin sensitizer.Repeated dose toxicity : Inhalation
rat

No toxicologically significant effects were found.

Oral - feed
rat

No toxicologically significant effects were found.

Dermal
rat

No toxicologically significant effects were found.

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.
Did not cause genetic damage in cultured mammalian cells.
Did not cause genetic damage in animals.Teratogenicity : Evidence suggests the substance is not a developmental toxin in
animals.**Ethoxylated Quaternary Amine**

Oral LD50 : 580 mg/kg , rat

Eye irritation : Severe eye irritation, rabbit

Skin sensitization : Does not cause skin sensitisation., guinea pig

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

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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Alcohol Ethoxylate

96 h LC50 : Pimephales promelas (fathead minnow) 8.5 - 11 mg/l

48 h EC50 : Daphnia magna (Water flea) 2.7 - 12 mg/l

2-Aminoethanol

96 h LC50 : Cyprinus carpio (Carp) 349 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 2.5 mg/l OECD Test Guideline 201

72 h NOEC : Pseudokirchneriella subcapitata (green algae) 1 mg/l OECD Test Guideline 201

48 h : Daphnia magna (Water flea) 50 mg/l Directive 67/548/EEC, Annex V, C.2.

30 d : NOEC Oryzias latipes (medaka) 1.2 mg/l OECD Test Guideline 210

21 d : NOEC Daphnia magna (Water flea) 0.85 mg/l OECD Test Guideline 211

1-(2-Butoxy-1-methylethoxy)propan-2-ol

96 h : Poecilia reticulata (guppy) 841 mg/l

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

Ethoxylated Quaternary Amine

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 24 mg/l

72 h EC50 : Algae 1.6 mg/l

48 h EC50 : Daphnia magna (Water flea) 13 mg/l OECD Test Guideline 202

Environmental Fate

Alcohol Ethoxylate

Biodegradability : 80 %

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Readily biodegradable.

Bioaccumulation : Bioaccumulation is unlikely.

2-Aminoethanol

Biodegradability : > 90 % OECD Test Guideline 301
Readily biodegradable.

Ethoxylated Quaternary Amine

Biodegradability : 11 %
Not readily biodegradable.**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN number	: 2491
	Proper shipping name	: Ethanolamine solutions
	Class	: 8
	Packing group	: III
	Labelling No.	: 8
	Reportable Quantity	: 1,000 lbs Potassium hydroxide
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.

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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 (US) Status	: On the inventory, or in compliance with the inventory
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	: 500,000 lbs Based on the percentage composition of this chemical in the product.: Potassium hydroxide
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™ is a trademark of E. I. du Pont de Nemours and Company.
The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

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



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