DuPont[™] Heavy Duty Tile and Grout Cleaner

Version 4.1

Revision Date 09/08/2014

Ref. 130000033976

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 Tradename/Synonym	:	DuPont [™] Heavy Duty Tile and Grout Cleaner DuPont Heavy Duty Grout Cleaner
MSDS Number	:	13000033976
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

Potential Health Effects Skin	:	May cause skin irritation. May cause: Discomfort, itching, redness, or swelling.
Eyes	:	Causes eye irritation. May cause: Tearing, redness, or discomfort.
Inhalation	:	May cause respiratory tract irritation.
Ingestion	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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.





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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	>96%
2-Aminoethanol	141-43-5	<2 %
Ethoxylated Quaternary Amine		<2 %
Alcohol Ethoxylate		<2 %
1-(2-Butoxy-1-methylethoxy)propan-2-ol	29911-28-2	<1 %

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.
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SECTION 5. FIREFIGHTING MEASURES

Flammable Properties	
Flash point	: does not flash
Thermal decomposition	: > 200 ℃ (> 392 ℉) 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 firefighting 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)	vacuate personnel to safe areas. Use personal protective equ entilate the area.	pment.
Spill Cleanup	am up. Soak up with inert absorbent material (e.g. sand, silica nder, universal binder, sawdust). Pick up and transfer to prope ontainers.	
Accidental Release Measures	o not discharge to streams, ponds, lakes or sewers. Avoid sub enetration.	osoil

SECTION 7. HANDLING AND STORAGE

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Handling (Personnel)	Wash	hands before		oid contact with skin, eyes and clothing. nediately after handling the product. Wash	
Handling (Physical Aspects)	can le	ead to release	ecomposition, do of irritating gases pen flame or hea		
Storage		tightly closed ct from freezin		d well-ventilated place.	
SECTION 8. EXPOSURE CONTR	OLS/PER	SONAL PROT	ECTION		
Engineering controls	: Use o	only in area pro	ovided with appro	opriate exhaust ventilation.	
Personal protective equipment Respiratory protection	: In cas	se of mist, spra ction and prote		oosure wear suitable personal respiratory	
Hand protection	: Addit	ional protectior	n: Impervious glo	oves	
Eye protection	: Wear	safety glasses	s or coverall che	mical splash goggles.	
Skin and body protection	: Light	weight protecti	ve clothing		
Exposure Guidelines Exposure Limit Values					
2-Aminoethanol Permissible exposure limit:	(OSHA)	3 ppm	6 mg/m3	8 hr. TWA	
Permissible exposure limit:	(OSHA)	3 ppm	6 mg/m3	8 hr. TWA	
TLV	(ACGIH)	6 ppm	STEL		
TLV	(ACGIH)	3 ppm	TWA		
AEL *	(DUPON ⁻	Г) 3 ррт	8 & 12 hr	. TWA	
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Material Safety Data She	et
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1-(2-Butoxy-1-methyletho AEL *	
	ble Exposure Limit. Where governmentally imposed occupational exposure limits which are ffect, such limits shall take precedence.
SECTION 9. PHYSICAL AND CH	IEMICAL PROPERTIES
Form Color Odor pH Boiling point/boiling range Specific gravity	: liquid : light yellow : mild : 10.5 - 11.5 : 100 ℃ (212 ℉) : 1.07
SECTION 10. STABILITY AND F	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 Tile ar Skin irritation	nd Grout Cleaner : No skin irritation, Rabbit
	Non-corrosive
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1	Eye irritation	:	Mild eye irritation, Rabbit
	Further information	:	The toxicological data has been taken from products of similar composition.
2-Aminoethar [nol Dermal LD50	:	1,017 mg/kg , Rabbit
(Oral LD50	:	1,098 mg/kg , Rat
1	nhalation	:	An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
;	Skin sensitization	:	Does not cause skin sensitisation., Guinea pig
I	Repeated dose toxicity	:	Oral Rat
			No toxicologically significant effects were found.
			Inhalation Rat
			No toxicologically significant effects were found.
M	Mutagenicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
I	Reproductive toxicity	:	No toxicity to reproduction Animal testing showed no reproductive toxicity.
-	Teratogenicity	:	Animal testing showed no developmental toxicity.
	Quaternary Amine Oral LD50	:	580 mg/kg , Rat
;	Skin sensitization	:	Does not cause skin sensitisation., Guinea pig
1	Mutagenicity	:	Did not cause genetic damage in cultured bacterial cells.
Alcohol Ethox	kylate Dermal LD50	:	2,000 - 5,000 mg/kg , Rabbit
(Oral LD50	:	1,100 mg/kg , Rat
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Skin sensitization	:	Does not cause skin sensitisation., Guinea pig
Repeated dose toxicity	:	Dermal Rat
		Skin effects, Thickening of skin
		Oral Rat
		No toxicologically significant effects were found.
Reproductive toxicity	:	No toxicity to reproduction Evidence suggests the substance is not a reproductive toxin in animals.
Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.
1-(2-Butoxy-1-methylethoxy)propan-2-ol Dermal LD50	:	> 2,000 mg/kg , Rat
Oral LD50	:	3,700 mg/kg , Rat
Inhalation 4 h LC50	:	> 5.4 mg/l , Rat
Skin sensitization	:	Does not cause skin sensitisation., Guinea pig
Repeated dose toxicity	:	Ingestion Rat
		No toxicologically significant effects were found.
Carcinogenicity	:	Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.
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.
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Teratogenicity

: Animal testing showed no developmental toxicity.

SECTION 12. ECOLOGICAL INFORMATION Aquatic Toxicity 2-Aminoethanol : Cyprinus carpio (Carp) 349 mg/l 96 h LC50 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 : Daphnia magna (Water flea) 50 mg/l Directive 67/548/EEC, Annex V, 48 h 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 Ethoxylated Quaternary Amine Oncorhynchus mykiss (rainbow trout) 24 mg/l 96 h LC50 : 72 h EC50 Algae 1.6 mg/l : 48 h EC50 Daphnia magna (Water flea) 13 mg/l OECD Test Guideline 202 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 1-(2-Butoxy-1-methylethoxy)propan-2-ol 96 h LC50 : Poecilia reticulata (guppy) 841 mg/l OECD Test Guideline 203 96 h ErC50 Pseudokirchneriella subcapitata (green algae) 519 mg/l : 48 h EC50 Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202 8/10



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Environmental Fate	
2-Aminoethanol Biodegradability	: > 90 % OECD Test Guideline 301 Readily biodegradable.
Ethoxylated Quaternary Amine Biodegradability	: 11 % Not readily biodegradable.
Alcohol Ethoxylate Biodegradability	: 80 % Readily biodegradable.
Bioaccumulation	: Bioaccumulation is unlikely.
SECTION 13. DISPOSAL CONS Waste Disposal	: In accordance with local and national regulations.
Waste Disposal SECTION 14. TRANSPORT INF	: In accordance with local and national regulations.
Waste Disposal SECTION 14. TRANSPORT INF	: In accordance with local and national regulations. ORMATION in the meaning of transport regulations.
Waste Disposal SECTION 14. TRANSPORT INF Not classified as dangerous	: In accordance with local and national regulations. ORMATION in the meaning of transport regulations.
Waste Disposal SECTION 14. TRANSPORT INF Not classified as dangerous SECTION 15. REGULATORY IN	: In accordance with local and national regulations. ORMATION in the meaning of transport regulations. FORMATION
Waste Disposal SECTION 14. TRANSPORT INF Not classified as dangerous SECTION 15. REGULATORY IN TSCA SARA 313 Regulated	 In accordance with local and national regulations. ORMATION in the meaning of transport regulations. FORMATION On the inventory, or in compliance with the inventory This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established



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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.

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Contact person

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

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Significant change from previous version is denoted with a double bar.

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