

Material Safety Data Sheet



DuPont™ SentraMax™

Version 3.0

Revision Date 08/03/2012

Ref. 130000031842

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™ SentraMax™
 Tradename/Synonym : DuPont™ SentraMax™ Broad-Spectrum Disinfectant

MSDS Number : 130000031842

Product Use : Disinfectant

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: Severe skin irritation

Eyes : May cause: Severe eye irritation, corneal damage.

Inhalation : May cause: Irritation, Other effects may include:, Headache, Nausea, Tiredness or drowsiness, inability to concentrate.

Ingestion : May cause: Irritation, Swelling, Gastrointestinal tract, Effects due to ingestion may include:, Muscular paralysis, Breathing difficulties, Convulsions, circulatory shock, May be fatal if swallowed..

Repeated exposure
 Ethanol : May cause harm to the unborn child.

Carcinogenicity
 Material IARC NTP OSHA

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Trisodium Nitritotriacetate 2B2B

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	65 - 70 %
Di-C8-10-Alkyldimethylammonium Chloride	68424-95-3	13.02 %
C12-16-Alkylbenzyltrimethylammonium Chloride	68424-85-1	8.68 %
Ethanol	64-17-5	1 - 3 %
Surfactant		4 - 7 %
Chelating Agent		1 - 3 %

SECTION 4. FIRST AID MEASURES

- 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.

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Ingestion : Call a poison control center 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.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point : 52 °C (126 °F)
Method : Pensky-Martens closed cup - PMCC

Thermal decomposition : Heating can release hazardous gases.

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.

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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.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Storage : Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Keep container closed when not in use.

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

Ethanol				
PEL:	(OSHA)	1,000 ppm	1,900 mg/m3	8 hr. TWA
TLV	(ACGIH)	1,000 ppm	STEL	
AEL *	(DUPONT)	1,000 ppm	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	: light yellow
Odor	: musty
pH	: 12 - 14
% Volatile	: 64 - 66 %
Density	: 8.26 - 8.76 lb/gal
Density	: 0.99 - 1.05 g/ml
Specific gravity	: 1.02 (Water=1.0)
Water solubility	: completely soluble 100%

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Stable at normal temperatures and storage conditions.
Incompatibility	: Anionic surfactants oxidizers, Reducing agents
Hazardous decomposition products	: Decomposition does not occur under normal use conditions.
Hazardous reactions	: Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

C12-16-Alkylbenzyltrimethylammonium Chloride	
Dermal LD50	: 704 mg/kg , rat
Oral LD50	: 304.5 mg/kg , rat
Inhalation LC50	: 0.054 - 0.51 mg/l , rat

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- Skin irritation : Corrosive, rabbit
- Skin sensitization : Causes sensitization., guinea pig
There are rare or inconclusive reports of human skin sensitization.
- Repeated dose toxicity : Oral - feed
rat

Reduced body weight gain
- Carcinogenicity : Animal testing did not show any carcinogenic effects.
- Mutagenicity : Animal testing did not show any mutagenic effects.
Did not cause genetic damage in cultured bacterial cells.
- Reproductive toxicity : Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.

Ethanol

- Dermal LD50 : > 15,800 mg/kg , rabbit
- Oral LD50 : 7,060 mg/kg , rat
- Inhalation 4 h LC50 : > 20 mg/l , rat
- Skin irritation : Slight or no skin irritation, rabbit
- Eye irritation : Moderate eye irritation, rabbit
- Skin sensitization : Did not cause sensitization on laboratory animals., mouse
- Repeated dose toxicity : Oral
rat

No toxicologically significant effects were found.
- Carcinogenicity : No increased risk of cancer in humans has been shown in workplace-based studies.
- Mutagenicity : Overall weight of evidence indicates that the substance is not mutagenic.

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- Reproductive toxicity : Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
- Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

C12-16-Alkylbenzyltrimethylammonium Chloride

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) 0.93 mg/l
- 96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 0.515 mg/l
- 72 h : Algae 0.049 mg/l OECD Test Guideline 201
- 48 h EC50 : Daphnia magna (Water flea) 0.0058 mg/l

Ethanol

- 96 h LC50 : Pimephales promelas (fathead minnow) 13,480 mg/l
- 96 h EC50 : Pseudokirchneriella subcapitata (green algae) 10,000 mg/l
- 48 h EC50 : Daphnia magna (Water flea) 12,340 mg/l

Environmental Fate

Ethanol

- Biodegradability : 84 %
Readily biodegradable.
- Bioaccumulation : Bioconcentration factor (BCF) : 0.05
Does not bioaccumulate.

SECTION 13. DISPOSAL CONSIDERATIONS

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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	: 1170
	Proper shipping name	: Ethanol solution
	Class	: 3
	Packing group	: III
	Labelling No.	: 3
	Reportable Quantity	: 100 lbs Ethanol
IATA_C	UN number	: 1170
	Proper shipping name	: Ethanol solution
	Class	: 3
	Packing group	: III
	Labelling No.	: 3
IMDG	UN number	: 1170
	Proper shipping name	: Ethanol solution
	Class	: 3
	Packing group	: III
	Labelling No.	: 3

SECTION 15. REGULATORY INFORMATION

EINECS Status	: Listed.
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	: 3,686 lbs

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- Quantity Based on the percentage composition of this chemical in the product.: Ethanol
- EPA Reg. No. : 6836-139-71654
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
- California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known
- 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): Ethanol

SECTION 16. OTHER INFORMATION

SentraMax™, The DuPont Oval Logo®, and DuPont™ are registered trademarks or trademarks of E. I. du Pont de Nemours and Company or its affiliates. Do not use for medical-clinical purposes.

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

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