

# Material Safety Data Sheet



## DuPont™ SentraMax™

Version 2.0

Revision Date 08/31/2009

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 : Liver effects

Target Organs  
Ethanol : Liver

Carcinogenicity  
Material IARC NTP OSHA  
Trisodium Nitritotriacetate 2B2B

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	65 - 70 %


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Di-C8-10-Alkyldimethylammonium Chloride	68424-95-3	13.02 %
C12-16-Alkylbenzyldimethylammonium 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.
- Ingestion : Call a poison control centre 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. FIRE-FIGHTING 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.



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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.

**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 feedings. 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 (Permissible Exposure Limit) (OSHA) 1,000 ppm 1,900 mg/m3 8 hr. TWA

PEL (Permissible Exposure Limit) (OSHA) 1,000 ppm 1,900 mg/m3 8 hr. TWA

TLV (ACGIH) 1,000 ppm 8 hr. TWA

TLV (ACGIH) 1,000 ppm STEL

AEL \* (DUPONT) 1,000 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.

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**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
Skin irritation	: Species: rabbit Corrosive, Corrosive
Skin sensitization	: Species: guinea pig, Causes 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.


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Teratogenicity : Animal testing showed no developmental toxicity.

## Ethanol

Dermal LD50 : > 15,800 mg/kg, rabbit

Oral LD50 : 10,800 mg/kg, rat

Oral : animals (unspecified species)  
Prostration  
Kidney effects

Inhalation 8 h LC50 : > 16,000 ppm, rat

Inhalation 4 h LC50 : > 20 mg/l, rat

Inhalation : human  
Central nervous system depression  
Incoordination  
narcosis

Skin irritation : Species: human  
non-irritant

Eye irritation : Species: rabbit  
Mild eye irritation

Skin sensitization : Not a skin sensitizer.

Repeated dose toxicity : Oral - drinking water, rat  
Reduced body weight gain, Liver effects

Carcinogenicity : An increased risk of cancer in humans has been shown in community-based studies.

Mutagenicity : Tests in some animals may indicate that the technical active ingredient may have embryotoxic activity.

Genetic damage in animals was observed in some laboratory tests but not in others., Tests on mammalian cell cultures showed mutagenic effects.

Reproductive toxicity : Experiments have shown reproductive toxicity effects on laboratory animals.

Teratogenicity : Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity., Has been reported to cause:, Foetal malformations


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**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 Cell multiplication inhibition test : Algae 0.049 mg/l OECD Test Guideline 201

48 h Immobilization EC50 : Daphnia magna (Water flea) 0.0058 mg/l

**Ethanol**

96 h LC50 : Fathead minnow 14.2 mg/l

48 h EC50 : Daphnia magna (Water flea) 9,268 - 14,221 mg/l

48 h EC50 : Daphnia &gt; 100 mg/l

**SECTION 13. DISPOSAL CONSIDERATIONS**

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
	Packaging group	: III
	Labelling No.	: 3
IATA_C	Reportable Quantity	: 100 lbs (Ethanol)
	UN-Number	: 1170
	Proper shipping name	: Ethanol solution
	Class	: 3
	Packaging group	: III
IMDG	Labelling No.	: 3
	UN-Number	: 1170
	Proper shipping name	: Ethanol solution
	Class	: 3
	Packaging group	: III
	Labelling No.	: 3


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**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 Quantity	: 3,686 lbs 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 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**

MSDS preparation date : 08/31/2009  
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Do not use for medical-clinical purposes.

Contact person : MSDS Coordinator, DuPont Chemical Solutions Enterprise, Wilmington, DE 19898, (800) 441-7515

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