



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

Page 1

CD0095 BioSentry(R) Evap(TM) 100
Revised 15-MAY-2007

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Chemicals Solutions Enterprise
1007 Market Street
Wilmington, DE 19898
USA

PHONE NUMBERS

Product Information : 800-441-7515 (Outside U.S. 302-774-1000)
Transport Emergency : CHEMTREC: 800-424-9300 (Outside U.S.
703-527-3887)
Medical Emergency : 800-441-3637 (Outside U.S. 302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
N,Alkyl (C8-C18)-N,N-dimethyl-N-benzylammonium Chloride	63449415	
N-Alkyl (C12-C-16)-N,N-dimethyl-N-benzylammonium Chloride	7173-51-5	
N-Alkyl (C12-C16)-N,N-dimethyl-N-ethylammonium Chloride	68424-85-1	
*Tributyl-Tin Oxide	56-35-9	

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Potential Health Effects

Vapors or mists may cause nose and throat irritation. Prolonged inhalation may produce drowsiness, weakness, and inability to concentrate.

Contact may cause severe irritation or burns with itching, redness, swelling, rash or blistering. Repeated contact may cause an allergic skin reaction.

(HAZARDS IDENTIFICATION - Continued)

Eye contact may cause severe irritation or injury with tearing, pain or blurred vision; eye corrosion with corneal or conjunctival ulceration.

Ingestion may cause burning pain in the mouth, throat and abdomen, and swelling of the larynx. Gross overexposure via ingestion may cause skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : >93 C (>199 F)
Method : Tag Closed Cup - TCC.

Not a fire or explosion hazard.

(FIRE FIGHTING MEASURES - Continued)**Extinguishing Media**

Use media appropriate for surrounding material.

Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Wear self-contained breathing apparatus (SCBA) and full protective gear.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid inhalation. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Keep container tightly closed.

Storage

Store in a cool, dry place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment**EYE/FACE PROTECTION**

(EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

Wear coverall chemical splash goggles. Additionally, wear a face shield where the possibility exists for face contact due to splashing or spraying of material.

RESPIRATORS Wear NIOSH approved respiratory protection as appropriate.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines

Applicable Exposure Limits

Tributyl-Tin Oxide		
PEL (OSHA)	:	2 mg/m ³ , metal, inorganic cmpds, (except oxides), as Sn - 8 Hr TWA 0.1 mg/m ³ , organic cmpds. as Sn, 8 Hr TWA
TLV (ACGIH)	:	2 mg/m ³ , 8 Hr TWA, metal, oxide, and inorganic compounds, except SnH ₄ , as Sn 0.1 mg/m ³ , 8 Hr TWA, STEL 0.2 mg/m ³ , organic compounds, as SN, skin, A4
AEL * (DuPont)	:	None Established

* 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.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	:	>215 F (>102 C)
% Volatiles	:	>80 %
Solubility in Water	:	100 % Complete
pH	:	9-10
Odor	:	Musty, Amine.
Form	:	Liquid.
Color	:	Colorless to Straw.
Specific Gravity	:	0.99
Density	:	8.25 lb/gal

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible with oxidizers and anionics.

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

TRANSPORTATION INFORMATION

Shipping Information

DOT - not regulated in packages with a capacity of less than 119 gallons. If greater than 119 gallons, use:

Proper Shipping Name.: Environmentally Hazardous
Substance, Liquid, N.O.S. (Tributyltin Oxide)
Hazard Class.: 9
UN Number.: 3082
Packing Group.: III
Label.: Class 9
Marine Pollutant.: Tributyltin Oxide

IMDG

Proper Shipping Name.: Environmentally Hazardous
Substance, Liquid, N.O.S. (Tributyltin Oxide)
Hazard Class.: 9
UN Number.: 3082
Packing Group.: III
Label.: Class 9
Marine Pollutant.: Tributyltin Oxide

For 1 gal and 5 L add: Limited Quantity

(TRANSPORTATION INFORMATION - Continued)

IATA - not regulated in transportation by IATA

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating	
Health	: 3
Flammability	: 0
Reactivity	: 0

Personal Protection rating to be supplied by user depending on use conditions.

Additional Information

EPA Reg. No: 83451-6-71654

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsible for MSDS	: MSDS Coordinator
>	: DuPont Chemical Solutions Enterprise
Address	: Wilmington, DE 19898
Telephone	: (800) 441-7515

Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS