



## Safety Data Sheet (SDS)

Revision / Review Date: 2/25/15

### 1. Chemical Product and Company Identification

Product Name:	DE83R
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Benzene, 1,1-oxybis(2,3,4,5,6-pentabromo
Synonyms:	Decabromodiphenyl ether, Pentabromophenyl ether
Molecular Formula:	C12Br100
Molecular Weight via GPC, Mn:	959.17 g/mol
Product Use:	Stearates
OSHA Status:	Non hazardous
CAS No:	1163-19-5
EC No:	214-604-9

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

### 2. Hazard(s) Identification

<u>Warning:</u>	Not available.
<u>Signs and Symptoms of Exposure:</u>	Not available.
<u>Primary Routes of Entry:</u>	Not available.
<u>Medical Conditions Generally Aggravated by Exposure:</u>	Not available.
<u>Eye Contact:</u>	May cause irritation of the eyes.
<u>Skin Contact:</u>	May cause irritation to the skin.
<u>Ingestion:</u>	May cause irritation to the digestive tract.
<u>Inhalation:</u>	May cause irritation to the respiratory tract.
<u>NFPA Rating:</u>	Health-2, Flire-0, Reactivity-0
<u>HMIS Hazard Ratings:</u>	Health-1, Flammability-0, Physical -0

HMIS limitation statement:

The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.

**3. Composition / Information on Ingredients**

Weight Percent / Typical	Component Identity	CAS Registry Number
90-100%	Decabromodiphenyl Ether	1163-19-5

**4. First Aid Measures**

<u>Inhalation:</u>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<u>Eyes:</u>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<u>Skin:</u>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
<u>Ingestion:</u>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. Fire-Fighting Measures**

<u>Suitable Extinguishing Media:</u>	Use water spray, alcohol-resistant foam, dry chemical or CO2.
<u>Special Fire Fighting Procedures:</u>	Wear self-contained breathing apparatus for firefighting if necessary.
<u>Hazardous Combustion Products:</u>	Carbon oxides, Hydrogen bromide gas, halogenated compounds.
<u>Unusual fire and explosion hazards:</u>	Not available.

**6. Accidental Release Measures**

<u>Steps to be taken in case material is spilled:</u>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
<u>Environmental Disposal Information:</u>	Do not let product enter drains.

Waste Disposal:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. Handling and Storage**

Empty Containers:

Not available.

Precautions to be taken in handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**8. Exposure Controls / Personal Protection**

Exposure Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Respiratory Protection:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Ventilation:

Ventilation must be sufficient to maintain atmospheric concentration below recommended exposure limit.

Hand protection:

Handle with gloves.

Eye Protection:

Safety glasses with side-shields.

Skin and Body Protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Other Precautions:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Do not let product enter drains.

Decontamination Facilities:

Eye washing facilities, sinks and shower.

## 9. Physical and Chemical Properties

<u>Physical Form:</u>	Solid
<u>Appearance &amp; Odor:</u>	White/ beige powder
<u>Specific Gravity:</u>	3.00 (water=1)
<u>Softening Point, R&amp;B:</u>	Not available.
<u>Solubility in Water:</u>	0.0001 g/l at 25 °C (77 °F) - OECD Test Guideline 105
<u>Flash Point, TAG CC F:</u>	Not available.
<u>Percent Volatiles (by weight):</u>	0.05%
<u>Evaporation Rate (Water ~ l):</u>	Not available.
<u>Vapor Pressure ( mm Hg):</u>	6.27x10 <sup>-10</sup> Pa (@ 25°C)
<u>Vapor Density (Air ~ l):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	Not available.
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.
<u>Melting point:</u>	300°C (> 572 °F)
<u>Partition Coefficient:</u>	log Pow: 6.625 at 25 °C (77 °F)

## 10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Material reacts with strong oxidizing agents.
<u>Conditions to Avoid:</u>	Avoid excessive heat.
<u>Hazardous Polymerization:</u>	Not available.

## 11. Toxicological Information

This material is not listed as a carcinogen or potential carcinogen by NTP, IARC, ACGIH or OSHA.

<u>Oral:</u>	LD50 -Rat - female - > 2,000 mg/kg.
<u>Inhalation:</u>	LC50 - Rat - male and female - 1 h - > 48.2 mg/l.
<u>Dermal:</u>	LD50- Rabbit - male and female - > 8,000 mg/kg.
<u>Skin corrosion/irritation:</u>	Skin – Rabbit, Result: No skin irritation.

<u>Serious eye damage/eye irritation:</u>	Eyes – Rabbit, Result: No eye irritation.
<u>Respiratory or skin sensitization:</u>	No data available.
<u>Germ cell mutagenicity:</u>	Rat - male and female, Result: negative
<u>Reproductive toxicity:</u>	No data available.
<u>Specific target organ toxicity - single exposure:</u>	No data available.
<u>Specific target organ toxicity - repeated exposure:</u>	No data available.

## 12. Ecological Information

<u>Toxicity to fish:</u>	Static test LC50 - Oryzias latipes - > 500 mg/l - 48 h
<u>Biodegradability:</u>	Aerobic-Exposure time 14 d, Result: 0 %-Not readily biodegradable.
<u>Bioaccumulation:</u>	Cyprinus carpio (Carp) - 42 d- 0.006 mg/l
<u>Mobility in soil:</u>	No data available.

## 13. Disposal Considerations

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

## 14. Transport Information

<u>D.O.T. Shipping Name:</u>	Not dangerous goods.
<u>Air - ICAO (international Civil Aviation Organization):</u>	Not dangerous goods.
<u>Sea - IMDG (International Maritime Dangerous Goods):</u>	Not dangerous goods.

## 15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

SARA 302 Components: No chemicals in this material are subject to be reported.

SARA 313 Components: The following components are subject to be reported:  
Decabromodiphenyl ether, CAS-No. 1163-19-5

SARA 311/312 Hazards: Chronic Health Hazard.

<u>Massachusetts Right To Know Components:</u>	Decabromodiphenyl ether, CAS-No. 1163-19-5
<u>Pennsylvania Right To Know Components:</u>	Decabromodiphenyl ether, CAS-No. 1163-19-5
<u>New Jersey Right To Know Components:</u>	Decabromodiphenyl ether, CAS-No. 1163-19-5
<u>California Prop. 65 Components:</u>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.