

**PENTABROMODIPHENYL ETHER (Technical product)****1612**

October 2005

CAS No: 32534-81-9  
RTECS No: DD6625350  
UN No: 3077  
EC No: 602-083-00-4

Diphenyl ether, pentabromo derivative  
1,1'-Oxybis(pentabromo benzene)  
C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O  
Molecular mass: 564.7

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			

EXPOSURE	See EFFECTS OF LONG-TERM OR REPEATED EXPOSURE.	STRICT HYGIENE!	
<b>Inhalation</b>		Avoid inhalation of mist.	Fresh air, rest.
<b>Skin</b>	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Rinse and then wash skin with water and soap.
<b>Eyes</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Personal protection: A/P2 filter respirator for organic vapour and harmful dust. Do NOT let this chemical enter the environment. Collect leaking liquid in sealable containers. Carefully collect remainder, then remove to safe place.	Xn Symbol N Symbol R: 48/21/22-50/53-64 S: (1/2-)36/37-45-60-61 UN Hazard Class: 9 UN Pack Group: III Marine pollutant.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-90GM7-III	Store in an area without drain or sewer access. Separated from food and feedstuffs.

## IMPORTANT DATA

**Physical State; Appearance**

AMBER VISCOUS LIQUID

**Chemical dangers**

The substance decomposes on heating producing toxic fumes including hydrogen bromide or bromine.

**Occupational exposure limits**

TLV not established.

MAK not established.

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

**Inhalation risk**

Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

**Effects of long-term or repeated exposure**

The substance may have effects on the liver.

## PHYSICAL PROPERTIES

Boiling point (decomposes): 200-300/C

Melting point: -7 - -3/C

Relative density (water = 1): 2.25 - 2.28

Solubility in water, g/100 ml at 20/C: 0.0013 (very poor)

Vapour pressure, Pa at 21/C: negligible

Octanol/water partition coefficient as log Pow: 6.57

## ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur along the food chain, for example in seafood.

## NOTES

The substance accumulates in fat tissues and can be excreted in breast milk.

Technical pentabromodiphenyl ether is a mixture of tetra-, penta-, and hexabromodiphenyl ethers.

## ADDITIONAL INFORMATION

## LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information