

Material Safety Data Sheet

NFPA	HCS Risk Phrases	Protective Clothing
110	Not an HCS controlled material in USA.	

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Common Name/ Trade Name	BENZOFLEX® 400	In case of Emergency	In the continental U.S.A. call CHEMTREC 800-424-9300 (24 Hours) Outside of the continental U.S.A. call CHEMTREC 703-527-3887 (24 Hours)	
Supplier		Manufacturer		
Velsicol Chemic	al Corporation	Velsicol Chemical Corporation		
10400 W. Higgir	ns Road	10400 W. Higgins Road		
Rosemont, IL 60	Rosemont, IL 60018 U.S.A.		Rosemont, IL 60018 U.S.A.	
•	Phone (847) 298-9000		Phone: 847-298-9000	
FAX (847) 298		FAX: 8	47-298-9015	
Synonym	Polypropylene Glycol Dibenzoate	Material U	ses	
Chemical Name	Poly[oxy(methyl-1,2- ethanediyl)],.alphabenzoylomega (benzoyloxy)-	Plasticizer	for adhesives, caulks, flooring and paints.	
Chemical Family	Aromatic ester.			
Chemical Formula	(C3-H6-O)n C14-H10-O3			

Name	CAS#	% by Weight	TLV/PEL	OSHA Hazardous
Polypropylene glycol dibenzoate Water (Impurity)		99.8-100 0-0.2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No Ingredients No
Tracti (inipanty)				

Emergency Overview	Off-white. Clear oily liquid Mild ester odor. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
Potential Health Effects	Inhalation and skin contact are epxected to be the primary routes of occupational exposure to Benzoflex 400. This material is not expected to cause significant adverse human health effects when good industrial hygiene and safety practices are followed.

Eye Contact	Flush with plenty of water. Seek medical attention if irritation persists.
Skin Contact	Flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.
Inhalation	Remove to fresh air.
Ingestion	If swallowed, induce vomiting as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

BENZOFLEX® 40	Page Number: 2
Flammability of the	Combustible.
Auto-Ignition Temperatur	e Not available.
Flash Points	OPEN CUP: 465°F (COC)
Flammable Limits	Not available.
Fire and Explosion Hazards	These products are carbon oxides (CO, CO2).
Fire Fighting Media and Instructions	SMALL FIRE: Use dry chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
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Small Spill	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill	Stop leak if without risk. Contain spilled liquid with diking. Keep away from heat. Keep away from sources of ignition. Absorb with an inert material and put the spilled material in an appropriate waste disposal container.
Succession VIII Briol	
Handling	Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing. Keep away from sources of ignition.
Storage	Store in well ventilated area away from sources of ignition.
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Engineering Controls	Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposure. If practical use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.
Personal Protection	Safety glasses. Lab coat. Gloves. Wear appropriate respirator when ventilation is Inadequate.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
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Physical state and appearance	Clear oily liquid
Color	Off-white.
Odor	Mild ester odor.
Boiling Point	Not available.
Melting Point	Not available.
Critical Temperature	Not available.
Specific Gravity	1.103 (Water = 1)
Vapor Pressure	<2 * 10-7 mm of Hg (@ 20°C)
Vapor Density	>11.8 (Air = 1)
Volatility Odor Threshold	Not available. Not available.
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BENZOFLEX® 40	Page Number: 3
Evaporation rate	Lower than 1. [Butyl acetate.]
Viscosity	Approximately 110 cP @ 25 deg C.
Solubility	Easily soluble in methanol, diethyl ether, and acetone. Slightty soluble in cold water.
pH (1% soin/water)	Not available.
Molecular Weight	approximately 400
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Stability	The product is stable.
Instability Temperature	Not available.

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	No additional remark.
Incompatibility with various substances	Very slightly to slightly reactive with acids, alkalis. Non-reactive with oxidizing agents, reducing agents, combustible materials, organic materials, metals, moisture.
Corrosivity	Not considered to be corrosive for metals and glass according to our database.
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Not available.

Toxicity to Animals Data from toxicity studies conducted by Velsicol Chemical Corporation are summarized below.

Oral LD50, Rat: >5000 mg/kg, Practically non-toxic Dermal LD50, Rat: >2000 mg/kg, No more than slightly toxic Inhalation LC50, Rat: > 5.38 mg/l (4-hr aerosol), Practically non-toxic

Eye irritation - Slightly Irritating to rabbits (2.3/110.0) Skin Irritation - Practically non-irritating to rabbits (0.2/8.0)

No allergic skin reaction was reported after repeated skin application to guinea pigs. No genetic changes were reported in standard tests using bacteria cells, both with and without mammalian metabolic activation.

Section XII E	
Ecotoxicology	Not available.
Chemical Fate	Not available
	The material is readily biodegradable (78% degradation in 28 days; shake flask method). Thin film photo degradation (UV light), half life 12 - 13 days.

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Waste Disposal Recycle to process, if possible. Consult your local or regional authorities for disposal options.

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DOT Proper Shipping	NONE
Name	
DOT Hazard Class	Not a DOT controlled material (United States).
UN Identification Number	Not applicable (PIN and PG).

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BENZOFLEX	9 400 Page Number: 4
DOT (Pictograms)	
Packing Group	NONE
Federal and State Regulations	All components of this material are listed on the TSCA Inventory
Other Classifications	WHMIS (Canada) Not a WHMIS controlled material.
	WHMIS (Canada) (Pictograms) TDG (Canada)
HMIS (U.S.A.)	(Pictograms) Health Hazard Fire Hazard Protection Reactivity Personal Protection National Fire Protection Association (U.S.A.) Health Specific hazard
THE TEST TOTAL PROPERTY.	
References	-LOLI Database, Chem Advisor via Micromedex Inc., 2/19/96 -ICRMS Inventorles Database, Ariel Research Corporation, 6/3/96 -Material Safety Data Sheet, Velsicol Chemical Corporation, Dec. 1995Velsicol Chemical Corporation, unpublished studies
Other Special Considerations	No additional remark.
	Bredbenner on 10/29/97. Verified by Amy M. Bredbenner.
Supercedes	Bredbenner on 10/29/97. Verified by Amy M. Bredbenner. U8/25/97 Printed 3/26/98.
Revision	Revised Section 7
of the information contained bereit	nformation contained berein is accurate. However, neither the above named supplies nor any of its substituties assumes any liability whatsoever for the accuracy or complainness. Final determination of suitability of any material is the zole responsibility of the user. All materials may present unknown hazards and should be used with causion. Although, we cannot guarantee that these are the only hazards that exist.

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