

MATERIAL SAFETY DATA SHEET

HOP DARK

Version Number 1.1 Revision Date 01/26/2004

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE	:	Product Stewardship (314) 771-1800
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	HOP DARK
Product code	:	FO20000219
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
1,2-Benzenedicarboxylic acid, butyl	85-68-7	10 - 30
phenylmethylester		

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Skin contact, Ingestion
Acute exposure	
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion	: May be harmful if swallowed.
Eyes	: May cause eye/skin irritation.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.



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Medical Conditions Aggravated by Exposure:	
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: No data available
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 No data available No data available Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



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Handling	fume condensate Periodically clea	as with appropriate exhaust ventilation. Processing es may contain combustible or toxic residue. an hoods, ducts, and other surfaces to minimize these materials.
Storage		dry and tightly closed to avoid moisture absorption on. Store in a cool dry place.
8. EX	POSURE CONTROLS	/ PERSONAL PROTECTION
Respiratory protection	: Under normal h	andling conditions a respirator may not be required.
Eye/Face Protection	: Safety glasses w	vith side-shields.
Hand protection	: Protective glove	s.
Skin and body protection	: Long sleeved cle	othing.
Additional Protective Measures	: Safety shoes.	
General Hygiene Considerations		lance with good industrial hygiene and safety practic ore breaks and at the end of workday.
Engineering measures		as with appropriate exhaust ventilation. Provide aust ventilation at machinery.
Exposure limit(s)		
9	. PHYSICAL AND CH	EMICAL PROPERTIES
Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	 liquid Viscous, liquid PURPLE Very faint Not applicable Not applicable Immiscible 	Evaporation rate:Not establishedSpecific Gravity::Not determinedBulk density:Not applicableVapor pressure:Not determinedVapour density:Not determinedpH:Not applicable
	10. STABILITY A	ND REACTIVITY
Stability	: Stable.	
Hazardous Polymerization	: Will not occur.	
Conditions to avoid	: Keep away from decomposition,	n oxidizing agents and open flame. To avoid thermal do not overheat.



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Incompatible Materials	:	Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Irritant	Eyes, Skin.
		Systemic effects	Liver, reproductive system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Oral LD50 Dermal LD50	2,330 mg/kg > 10 gm/kg	rat rabbit

12. ECOLOGICAL INFORMATION

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.
Bioaccumulation Potential	: No data available
Additional advice	: No data available
	13. DISPOSAL CONSIDERATIONS
Product	: Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.



U.S. DOT Classification ICAO/IATA (air) IMO / IMDG (maritime)	 has the resp and dispose and local re 14. TRANSP : Refer to sp : Refer to sp 	ponsibility for al in accordan	on. on.	Print Date and the print Date and the print Date and the print of the	material ation
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	1	ecific regulati	on		
	15. REGULA		011.		
		TORY INFO	RMATION		
US Regulations: OSHA Status TSCA Status US. EPA CERCLA Hazardous Su	: All compo Inventory.	onents of this p	based on components. Product are listed on or		e TSCA
Chemical Name CAS	S-No. 9	% in Product	RQ for component	RQ for	
1,2-Benzenedicarb85-6oxylic acid, butylphenylmethylester	58-7 2	24.3750	100 lbs	Mixture/Prod 410 LB	uct
65 SARA Title III Section 302 Extre Not applicable SARA Title III Section 313 Toxic Not applicable Canadian Regulations:	emely Hazardor c Chemicals:	us Substance	ntain a substance liste	d by California l	Prop 65.
National Pollutant Release Chemical Name	: Inventory (NF		CAS-No. Weig	ght % NPRI II	D#



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Chemical Name			CAS-No.	Weight %	NPRI ID#
1,2-Benzenedicarboxylic phenylmethylester	acid,	butyl	85-68-7	24.37	37
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WHMIS Classification	ı :	D2B			
WHMIS Ingredient Dis	sclosu	ire List			
CAS-No. 85-68-7					
DSL	:	All components of the Substances List (DSI			Domestic
tional Inventories:					
tional Inventories: Australia AICS	:	Listed			
	:	Listed Not determined			
Australia AICS	-				
Australia AICS China IECS	-	Not determined			
Australia AICS China IECS Europe EINECS	-	Not determined			

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.