

MATERIAL SAFETY DATA SHEET *M1010 BONE*

Version Number 1.2 Revision Date 10/24/2003

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (440) 930-1395
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	M1010 BONE
Product code	:	VC10001575
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	1 - 5
Dibutyltin mercaptide	10584-98-2	1 - 5
Calcium carbonate	1317-65-3	5 - 10

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. See Sections 3 and 11 for additional details. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). OSHA considers VCM a suspect carcinogen and regulates it under 29 CFR 1910.1017. It is unlikely, under normal working conditions with adequate ventilation, that the OSHA action level and the OSHA exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion, Skin contact	
Acute exposure	
Inhalation Ingestion Eyes	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to eyes.



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Skin	: Experience shows no unusual dermatitis hazard from routine handling
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.
	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, also under the eyelids, 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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting	 Not applicable Not applicable Not applicable water, foam, carbon dioxide (CO2), dry powdernone. Fullface self-contained breathing apparatus (SCBA) used in positive
Procedures	pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	: May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 1: of this MSDS for proper disposal methods.



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	7.	HANDLING AND STORAG		
Handling		Take measures to prevent the bundle in areas with appropriate expondensates may contain combunes hoods, ducts, and other sumese materials.	xhaust ventilation. Proce stible or toxic residue.	essing fume Periodically
Storage		Leep containers dry and tightly nd contamination. Keep in a d		e absorption
8. H	EXPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally r	equired.
Eye/Face Protection	: S	afety glasses with side-shields.		
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: S	afety shoes.		
General Hygiene Considerations		landle in accordance with good Vash hands before breaks and a		afety practic
Engineering measures		leat only in areas with appropri ppropriate exhaust ventilation a		Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z
	15 mg/m3	PEL:	Total dust.	OSHA Z
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z
Dibutyltin mercaptide	0.1 mg/m3	PEL:	Total dust. as Sn	OSHA Z
	0.1 mg/m3	Time Weighted Average (TWA):	as Sn	ACGIH
	0.2 mg/m3	Short Term Exposure Limit (STEL):	as Sn	ACGIH
	9. PHYSIC	CAL AND CHEMICAL PRO	PERTIES	
Form	: Solic	1		applicable
	D 11	ets, powder Specifi	c Gravity : Not	determined



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Color Odor Melting point/range Boiling Point: Water solubility	: N : N	AN ery faint ot determined ot applicable soluble	Bulk density Vapor pressure Vapour density pH	: : :	Not established Not applicable Not applicable Not applicable
	1). STABILITY AND	REACTIVITY		
Stability	:	Stable.			
Hazardous Polymerization	:	Will not occur.			
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.				. To avoid thermal
Incompatible Materials	:		rong acids and oxidizing ymers and acetal copoly		
Hazardous decomposition products	:	(NOx), other hazard Prolonged heating (a (200 °C) or short term	2), carbon monoxide (Co ous materials, and smoke approximately 30 minute n heating at 482 °F (250 evolution of carbon mono	e are a s or r °C) n	all possible. nore) above 392 °F nay result in product
	11. '	FOXICOLOGICAL	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.

<u>Toxicity Overview</u> This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
10584-98-2	Dibutyltin mercaptide	Irritant	Eyes, Skin.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.

12. ECOLOGICAL INFORMATION

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Adverse ecological impact is not known or expected under normal use.
Bioaccumulation Potential	:	No data available
Additional advice	:	Not applicable

13. DISPOSAL CONSIDERATIONS



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possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations. Contaminated packaging : Recycling is preferred when possible. The generator of waste has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provand local regulations. U.S. DOT Classification : Not regulated for transportation. ICAO/IATA (air) : Not regulated for transportation. IMO / IMDG (maritime) : Not regulated for transportation. US Regulations: : Classified as hazardous based on components. TSCA Status : Classified as hazardous based on or exempt from the Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : WARNING! This product contains a chemical known to the California to cause cancer., WARNING! This product contains a chemical known to the california to cause cancer.	rsion Number 1.2 vision Date 10/24/2003	Page 5 of Print Date 11/12/20
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Natio	National Pollutant Release Inventory (NPRI)					
Not appl	icable					
WHI	MIS Classification	:	D2B			
WHN	/IS Ingredient Discl	osu	re List			
	CAS-No. 10584-98-2					
DSL		:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.			
National Inv	entories:					
Aust	ralia AICS	:	Not determined			
Chin	a IECS	:	Not determined			
Euro	pe EINECS	:	Not determined			
Japa	n ENCS	:	Not determined			
Kore	a KECI	:	Not determined			
Phili	ppines PICCS	:	Listed			
			16. OTHER INFORMATION	1		

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.