

### MATERIAL SAFETY DATA SHEET

# **BONE HIPS**

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# 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	BONE HIPS
Product code	:	CC10007310
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Rutile, antimony chromium buff	68186-90-3	1 - 5
Titanium dioxide	13463-67-7	10 - 30

#### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure. See Sections 3 and 11 for special precautions.

### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact		
Acute exposure			
Inhalation Ingestion	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> </ul>		
Eyes	<ul> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>		
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:	: 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 a 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	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not relevant</li> <li>Carbon dioxide blanket, Water spray, dry powder, foam.</li> </ul>
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	: None
	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 3 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

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Storage		: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.			
8. 1	EXPOSURE	CONTROLS / PERSONAL	PROTECTION		
Respiratory protection	: N	No personal respiratory protective equipment normally required.			
Eye/Face Protection	: S	afety glasses with side-shields			
Hand protection	: P	rotective gloves.			
Skin and body protection	: L	: Long sleeved clothing.			
Additional Protective Measures	: S	: Safety shoes.			
General Hygiene Considerations	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.				
Engineering measures		: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.			
Exposure limit(s)					
Components	Value	Exposure time	Exposure type	List:	
Rutile, antimony chromium buff	0.5 mg/m3	Time Weighted Average (TWA):	Total dust. as Cr	ACGIH	
	0.5 mg/m3	PEL:	Total dust. as Cr	OSHA Z1	
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH	
	0.5 mg/m3	PEL:	Total dust. as Sb	OSHA Z1	
Titanium dioxide	10 mg/m3	Time Weighted Average	Total dust.	ACGIH	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

(TWA):

PEL:

- Form Appearance Color Odor Melting point/range Boiling Point: Water solubility
- : Pellets : TAN : Very faint : Not determined : Not applicable : Insoluble

: Solid

15 mg/m3

Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pН

Total dust.

: Not applicable. : Not determined : Not established : Not applicable : Not applicable : Not applicable

OSHA Z1

#### **10. STABILITY AND REACTIVITY**

Stability

: Stable.



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Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

#### **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
68186-90-3	Rutile, antimony chromium buff	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

#### Additional Health Hazard Information:

Rutile, antimony chromium buff 68186-90-3 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	: No data available.
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastics the product can be recycled. 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.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste material



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		accordance with app	ste classification, trans plicable federal, state/p	
	14. TRANSPORT	<b>INFORMATION</b>	1	
U.S. D.O.T. / CA T.D.G. Classification (Non-bulk ground)	: Not regulated fo	r transportation.		
ICAO/IATA	: Not regulated fo	r transportation.		
IMO / IMDG	: Not regulated fo	r transportation.		
	15. REGULATOR	Y INFORMATIO	N	
US Regulations:				
OSHA Status	: Classified as haz	zardous based on co	omponents.	
TSCA Status	: All components exempt.	of this product are l	listed on the TSCA inve	entory or
California Proposition 65	: This product doe	es not contain a sub	stance listed by Califor	nia Prop
SARA Title III Section 313 To	oxic Chemicals:			
Chemical Name		CAS-No.	Weight %	]
CHROMIUM I ANTIMONY C	II COMPOUNDS COMPOUNDS	68186-90-3	2.05	
Canadian Regulations:				
WHMIS Classification	: D2B			
WHMIS Ingredient Dis	closure List			
CAS-No. 1333-86-4 68186-90-3				
DSL	: Listed.			
National Inventories:				
Australia AICS	. Listed			

Australia AICS : Listed.

China IECS : Listed.



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Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Listed.
Philippines PICCS	:	Listed.

#### **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 used in combination with any other materials or in any process, unless specified in the text.