MATERIAL SAFETY DATA SHEET BUFF

Version Number 1.0 Revision Date 12/04/2006

Page 1 of 6 Print Date 11/25/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:number	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).	
Product name	BUFF	
Product code	CC10094466	
Chemical Name	Mixture	
CAS-No.	Mixture	
Product Use	Industrial Applications	

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Calcium carbonate	1317-65-3	5 - 10
Titanium dioxide	13463-67-7	5 - 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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.

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 average.
Skin	eyes. : 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.

PolyOne.

MATERIAL SAFETY DATA SHEET **BUFF**

Version Number 1.0 Revision Date 12/04/2006 Page 2 of 6 Print Date 11/25/2011

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 seel medical attention.
		5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Elemmehle Limite		
Flammable Limits Upper explosion limit		Not applicable
Lower explosion limit	:	Not applicable
Autoignition temperature	:	Not applicable
Suitable extinguishing media	:	Carbon dioxide blanket, water spray, dry powder, foamnone.
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	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A(CCIDENTAL 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 13 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.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption

2/6



MATERIAL SAFETY DATA SHEET **BUFF**

Version Number 1.0 Revision Date 12/04/2006

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Page 3 of 6 Print Date 11/25/2011

Skin and body protection : Long sleeved clothing. Additional Protective : Safety shoes. Measures : Safety shoes. General Hygiene : Handle in accordance with good industrial hygiene and safety practice Considerations : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Exposure limit(s) : Respirable fraction. OSHA ZI Components Value Exposure time Exposure type List: Calcium carbonate 5 mg/m3 PEL: Respirable fraction. OSHA ZI 10 mg/m3 Time Weighted Average MX OEL (TWA): 20 mg/m3 Short Term Exposure Limit (STEL): MX OEL Titanium dioxide 10 mg/m3 Time Weighted Average ACGIH (TWA): : . OSHA ZI 20 mg/m3 Short Term Exposure Limit (STEL): . NO tapplicable Young/m3 Short Term Exposure Limit (STEL): . . Ventary Ve	8. H	XPOSURE	CONTROLS / PERSONA	L PROTECTION		
Hand protection : Protective gloves. Skin and body protection : Long sleeved clothing. Additional Protective :: Safety shoes. Measures : Safety shoes. General Hygiene :: 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) : Respirable fraction. OSHA 21 Components Value Exposure time Exposure type List: Calcium carbonate 5 mg/m3 PEL: Total dust. OSHA 21 10 mg/m3 Time Weighted Average MX OEL OSHA 21 20 mg/m3 Short Term Exposure Limit MX OEL (STEL): Titanium dioxide 10 mg/m3 Time Weighted Average ACGIH (TWA): . . OSHA 21 20 mg/m3 Short Term Exposure Limit as Ti MX OEL <	Respiratory protection	: N	: No personal respiratory protective equipment normally required.			
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MATERIAL SAFETY DATA SHEET **BUFF**

Version Number 1.0 Revision Date 12/04/2006

Page 4 of 6 Print Date 11/25/2011

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
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

12. ECOLOGICAL INFORMATION

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the polymer matrix.



MATERIAL SAFETY DATA SHEET **BUFF**

sion Number 1.0 ision Date 12/04/2006	Page 5 Print Date 11/25/2
Additional advice	: No data available
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics 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 has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSCA Inventory.
US. EPA CERCLA Hazardou	s Substances (40 CFR 302)
Not applicable	
California Proposition 65	: Not applicable
SARA Title III Section 302 E	stremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regula

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MATERIAL SAFETY DATA SHEET **BUFF**

Version Number 1.0 Revision Date 12/04/2006 Page 6 of 6 Print Date 11/25/2011

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

Chemical Name			CAS-No.	Weight %	NPRI ID#
Zinc ferrite brown spinel (C.I.	Pig	gment Yellow	68187-51-9	0.10 - 1.00	231
119)					
WHMIS Classification	:	Not controlled.			
DSL	:	-	s of this product a (DSL) or are exe	re on the Canadia mpt.	n Domestic
ational Inventories:					
Australia AICS	:	Listed			
China IECS	:	Listed			
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.