PolvOne

MATERIAL SAFETY DATA SHEET MB2438CHBR(1585Charlie Brown)

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone Emergency telephone	:	Product Stewardship (770) 590-3500 x.3563 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	MB2438CHBR(1585Charlie Brown)
Product code	:	FO20015862
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	0.1 - 1
Calcium oxide	1305-78-8	1 - 5
Miscellaneous Barium Compounds	0-08-8	1 - 5

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 : None known. 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 ca 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 seek 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, Foam. 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	:	Heat only in areas with appropriate exhaust ventilation. Processing
		fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.
8. EXPOS	SUI	RE CONTROLS/PERSONAL PROTECTION
Respiratory protection	:	No personal respiratory protective equipment normally required.
Eye/Face Protection	:	Safety glasses with side-shields
Hand protection	:	Protective gloves
Skin and body protection	:	Long sleeved clothing
Additional Protective Measures	:	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:
Calcium oxide	2 mg/m3 Time Weighted (TWA)			ACGIH
	5 mg/m3	PEL:		OSHA Z1
	2 mg/m3	Time Weighted Average (TWA):		MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL
Miscellaneous Barium Compounds	0.5 mg/m3	Time Weighted Average (TWA):	as Ba	ACGIH
	0.5 mg/m3	PEL:	as Ba	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form Appearance Color Odour Melting point/range Boiling Point: Water solubility	 liquid Viscous, liquid BROWN Very faint Not applicable Not applicable Immiscible 	Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH	 Not established Not determined Not applicable Not determined Not determined Not applicable 			
	10. STABILITY AN	ND 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.					
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
13463-67-7	Titanium dioxide	Titanium dioxide Systemic effects Respiratory system.	
1305-78-8	Calcium oxide	Irritant	Skin.
		Systemic effects	Eyes, Skin, Respiratory
			system.
		Corrosive	Skin.
0-08-8	Miscellaneous Barium	Irritant	Respiratory system, Eyes.
	Compounds		
		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

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13463-67-7	Titaniu	m dioxide	no	2B	no	
1	t is carcinoger ent is probably					
	t is known to l	: be a human carcinogen y anticipated to be a hu				
		12. ECOLOGICAL	INFORMATION			
Persistence and de	gradability	: Not readily biode	gradable.			
Environmental To	xicity	: Environmental to: whole.	xicity has not been e	established for this	mixture as	
Bioaccumulation I	Potential	: No data available				
Additional advice : No data available						
		13. DISPOSAL CO	NSIDERATIONS			
Product		generator of waster classification, tran	ecycling is preferred e material has the re asportation and disp , state/provincial an	sponsibility for pro osal in accordance	oper waste with	
Contaminated pac	kaging	material has the re transportation and	erred when possible. esponsibility for pro l disposal in accorda nd local regulations.	per waste classific ince with applicable	ation,	
		14. TRANSPORT	INFORMATION			
U.S. DOT Classifi	cation	: Refer to specific r	regulation.			
ICAO/IATA (air)		: Refer to specific r	egulation.			
IMO / IMDG (maritime) : Refer to specific regulation.						
		15. REGULATORY	INFORMATION			
US Regulations:						
OSHA Sta	tus	: Classified as haza	rdous based on com	ponents.		
OSHA Status : Classified as hazardous based on components.						

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TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Not applicable

California Proposition : Not applicable 65

SARA Title III Section 302 Extremely Hazardous Substance

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

SARA Title III Section 313 Toxic Chemicals:

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

Chemical Name	CAS-No.	Weight %
BARIUM COMPOUNDS	0-08-8	1.00 - 5.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Miscellaneous Zinc Compounds	0-05-5	0.10 - 1.00	241

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1305-78-8
0-08-8

:

DSL

All of the components of this product are listed on the Canadian Inventories or are exempt. However, at least one component of this product is on the Canadian Non-Domestic Substances List (NDSL). Quantity use in Canada is restricted by regulations.

National Inventories:

Australia AICS

: Not determined

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	16. OTHER INFORMATION
Philippines PICCS	: Not determined
Korea KECI	: Not determined
Japan ENCS	: Not determined
Europe EINECS	: Not determined
China IECS	: Not determined

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.