PolvOne

MATERIAL SAFETY DATA SHEET *MM438A*

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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	:	MM438A
Product code	:	FO20017931
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Bisphenol A - Epichlorohydrin polymer	25068-38-6	1 - 5
Quartz	14808-60-7	0.1 - 1
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	1 - 5
Calcium oxide	1305-78-8	5 - 10
Calcium carbonate	1317-65-3	30 - 60

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 and skin irritation.	
Skin	: Experience shows no unusual dermatitis hazard from routine handling.	

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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 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 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	 no data available no data available Not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. 	
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 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	



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		for proper disposal methods.
		7. HANDLING AND STORAGE
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. EX	POSU	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)		

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Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):		MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Calcium oxide	2 mg/m3	Time Weighted Average (TWA):		ACGIH
	2 mg/m3	Recommended exposure limit (REL):		NIOSH
	5 mg/m3	PEL:		OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):		OSHA Z1A
	2 mg/m3	Time Weighted Average (TWA):		MX OEL
Petroleum distillates, hydrotreated light naphthenic	500 ppm 2,000 mg/m3	PEL:		OSHA Z1
	400 ppm 1,600 mg/m3	Time Weighted Average (TWA):		OSHA Z1A
Quartz	0.025 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	0.05 mg/m3	Recommended exposure limit (REL):	Respirable dust.	NIOSH
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable dust.	OSHA Z1A
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3
	0.3 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3
	0.1 mg/m3	Time Weighted Average (TWA):		MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility liquid
viscous, liquid
GREY
very faint
not applicable
not applicable
immiscible

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH Not establishedNot determinedNot applicableNot determinedNot determined

: Not applicable

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., 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
25068-38-6	Bisphenol A -	Irritant	Skin.
	Epichlorohydrin polymer		
		sensitizer	Skin.
14808-60-7	Quartz	Systemic effects	Eyes, Respiratory system.
64742-53-6	Petroleum distillates,	Irritant	Eyes, Skin.
	hydrotreated light		
	naphthenic		
1305-78-8	Calcium oxide	Irritant	Skin.
		Systemic effects	Eyes, Skin, Respiratory
			system.
		Corrosive	Skin.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory
			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
25068-38-6	Bisphenol A -	Oral LD50	11,400 mg/kg	rat
	Epichlorohydrin polymer	Dermal LD50	> 6,000 mg/kg	rabbit

Carcinogenicity

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

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CAS-No.	Chemical Name	OSHA	IARC	NTP
14808-60-7 Quartz		no	1	no
IARC Carcinogen Classificatio 1 - The component is carcinoge 2A - The component is probabl 2B - The component is possibly NTP Carcinogen Classification 1 - The component is known to 2 - The component is reasonabl <u>Additional Health Hazard Inf</u> Quartz 14808-60-7 This ma	nic to humans. y carcinogenic to humans y carcinogenic to humans s: be a human carcinogen. y anticipated to be a hum cormation:	nan carcinogen.	se respiratory tr	act irritation.
Long-term exposure may cau which is a scarring of the lun		diminished chest	expansion and J	
which is a scarring of the lun	gs. 12. ECOLOGICAL I	NFORMATION	expansion and p	
	gs.	NFORMATION	expansion and p	
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which is a scarring of the lun Persistence and degradability	 gs. 12. ECOLOGICAL I Not readily biodegi Environmental toxi 	NFORMATION		oossibly silicosi
which is a scarring of the lun Persistence and degradability Environmental Toxicity	 gs. 12. ECOLOGICAL I Not readily biodegr Environmental toxi whole. 	NFORMATION		oossibly silicosi
which is a scarring of the lun Persistence and degradability Environmental Toxicity Bioaccumulation Potential	 gs. 12. ECOLOGICAL I Not readily biodegr Environmental toxi whole. no data available 	NFORMATION adable. city has not been e		oossibly silicosi

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	: Refer to specific regulation.
ICAO/IATA	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.

15. REGULATORY INFORMATION

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US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	 All components of this product are listed on or exempt from the
1567 Suitus	TSCA Inventory.
US. EPA CERCLA Hazardous	Substances (40 CFR 302)
not applicable	
California Proposition 65	: WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
SARA Title III Section 302 Ext	tremely Hazardous Substance
Unless specific chemicals are id	dentified under this section, this product is Not Applicable under this regula
SARA Title III Section 313 To:	
Unless specific chemicals are ic	
Unless specific chemicals are ic Canadian Regulations:	dentified under this section, this product is Not Applicable under this regula
Unless specific chemicals are ic	dentified under this section, this product is Not Applicable under this regula
Unless specific chemicals are ic Canadian Regulations:	dentified under this section, this product is Not Applicable under this regula
Unless specific chemicals are ic Canadian Regulations: National Pollutant Relea	dentified under this section, this product is Not Applicable under this regula
Unless specific chemicals are id Canadian Regulations: National Pollutant Relea not applicable	dentified under this section, this product is Not Applicable under this regula use Inventory (NPRI) : D2A
Unless specific chemicals are id Canadian Regulations: National Pollutant Relea not applicable WHMIS Classification	dentified under this section, this product is Not Applicable under this regula use Inventory (NPRI) : D2A
Unless specific chemicals are in Canadian Regulations: National Pollutant Relean not applicable WHMIS Classification WHMIS Ingredient Disco CAS-No. 1305-78-8	dentified under this section, this product is Not Applicable under this regula use Inventory (NPRI) : D2A

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Australia AICS	: Not determined
China IECS	: Not determined
Europe EINECS	: Not determined
Japan ENCS	: Not determined
Korea KECI	: Not determined
Philippines PICCS	: Not determined
Korea KECI	: 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 used in combination with any other materials or in any process, unless specified in the text.