## MATERIAL SAFETY DATA SHEET

## MB319 YELLOW

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone Emergency telephone number	:	Product Stewardship (770) 590-3500 x.3563 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	MB319 YELLOW
Product code	:	FO20011923
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

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

Components	CAS-No.	Weight %
Calcium oxide	1305-78-8	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.		
Medical Conditions Aggravated by Exposure:	: None known.		



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	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 seel 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	<ul> <li>No data available</li> <li>No data available</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foam.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO2), carbon monoxide (CO), oxide</li> </ul>
	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
Handling	: Heat only in areas with appropriate exhaust ventilation. Processing



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Calcium oxide2 mg/m3Time Weighted Average (TWA):Dust.ACC	sion Date 07/06/2005			Print D	Page ate 11/18
and contamination. Store in a cool dry place.         Respiratory protection         ExpoSURE CONTROLS / PERSONAL PROTECTION         Respiratory protection         Exposure try protection         Exposure for the protective equipment normally required         Eye/Face Protection         I consideration         Protective gloves.         Skin and body protection         I consideration         Considerations         Wash hands before breaks and at the end of workday.         Engineering measures         I Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)         Output         Output         Output         Output         Exposure time         Exposure time         Consideration at machinery.         Exposure time		Р	eriodically clean hoods, ducts	, and other surfaces to mi	
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       : Safety shoes.         Measures       : Safety shoes.         General Hygiene       : Handle in accordance with good industrial hygiene and safety processing 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       Li:         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.       ACC         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       : liquid       Evaporation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not determin         Color       : YELLOW       Bulk density       : Not determin         Melting point/range       : Not applicable       Vapour density       : Not applicable         Vater solubility       : Immiscible       Immiscible       I	Storage				e absorption
Eye/Face Protection       : Safety glasses with side-shields.         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 procession in the end of workday.         Engineering measures       : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Measures         Components       Value       Exposure time         Components       Value       Exposure time         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.         ACC       (TWA):       Dust.       OSH         PHYSICAL AND CHEMICAL PROPERTIES       Percention in the end of work day.       Specific Gravity:       : Not applical Odor         Golor       : YELLOW       Bulk density       : Not applical Odor       : Very faint       Vapor pressure       : Not determi Odor         Golor       : YELLOW       Bulk density       : Not determi Odor       : Very faint       Vapour density       : Not determi Odor         Golor       : Very faint       Vapour density       : Not determi Odor <td>8. I</td> <td>EXPOSURE</td> <td>CONTROLS / PERSONAL</td> <td>PROTECTION</td> <td></td>	8. I	EXPOSURE	CONTROLS / PERSONAL	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 process 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)       : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Dust. ACC         Components       Value       Exposure time       Exposure type       Li         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.       ACC         (TWA):       : Dust.       OSH         Form       : liquid       Evaporation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not applical         Odor       : YELLOW       Bulk density	Respiratory protection	: N	lo personal respiratory protect	ive equipment normally 1	equired.
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 of the end of workday.         Engineering measures       :       Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       :       .       ACC (TWA):         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.       ACC (TWA):         .       5 mg/m3       PEL:       Dust.       OSH         Form : liquid       Evaporation rate : Not establis         Appearance       :       Viscous, liquid       Specific Gravity: : Not determing         Color       :       YELLOW       Bulk density : Not applicad         Odor       :       Very faint       Vapor pressure : Not determing         Boiling Point:       :       Not applicable       Vapour density : Not applicad         Water solubility       :       Inmiscible       Intimiscible       Intimiscible	Eye/Face Protection	: S	afety glasses with side-shields	S.	
Additional Protective Measures       : Safety shoes.         Measures       : Handle in accordance with good industrial hygiene and safety praconsiderations         General Hygiene : Handle in accordance with good industrial hygiene and safety praconsiderations       : 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) <u>Components Value Exposure time Exposure type List</u> Calcium oxide       2 mg/m3         Time Weighted Average Dust.       ACC         (TWA):       Dust.       OSH <u>9. PHYSICAL AND CHEMICAL PROPERTIES</u> Form : liquid Evaporation rate : Not establis       Appearance : Viscous, liquid Specific Gravity: Not determi         Color : YELLOW Bulk density : Not applicable       Vapour density : Not applicable         Odor : Very faint Vapor pressure : Not determi       Not applicable         Boiling Point: : Not applicable       PH         Not applicable       PH         Water solubility : Immiscible       Immiscible	Hand protection	: P	Protective gloves.		
Measures         General Hygiene Considerations       : Handle in accordance with good industrial hygiene and safety pra 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)       : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.         Exposure limit(s)       : Material exposure time       : Exposure type       Li:         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.       ACC (TWA):         5 mg/m3       PEL:       Dust.       OSH         Separation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not determi         Color       : YELLOW       Bulk density       : Not applicable         Odor       : Very faint       Vapour density       : Not applicable         Boiling Point:       : Not applicable       pH       : Not applicable         Water solubility       : Immiscible       Immiscible       Immiscible	Skin and body protection	: L	ong sleeved clothing.		
Considerations       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) <ul> <li></li></ul>		: S	afety shoes.		
appropriate exhaust ventilation at machinery.         Exposure limit(s)       Exposure time       Exposure type       Lit         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.       ACC         Calcium oxide       2 mg/m3       Time Weighted Average       Dust.       ACC         (TWA):       0       0       5 mg/m3       PEL:       Dust.       OSH         PHYSICAL AND CHEMICAL PROPERTIES         Form       :       liquid       Evaporation rate       :       Not establis         Appearance       :       Viscous, liquid       Specific Gravity:       :       Not determi         Color       :       YELLOW       Bulk density       :       Not applical         Odor       :       Very faint       Vapor pressure       :       Not determi         Melting point/range       :       Not applicable       Vapour density       :       Not applical         Water solubility       :       Immiscible       :       Not applical         10. STABILITY AND REACTIVITY					afety practi
Exposure limit(s)         Exposure limit(s)         Components       Value       Exposure time       Exposure type       List         Calcium oxide       2 mg/m3       Time Weighted Average (TWA):       Dust.       ACC         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       : liquid       Evaporation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not determi         Color       : YELLOW       Bulk density       : Not applical         Odor       : Very faint       Vapor pressure       : Not determi         Boiling point/range       : Not applicable       Vapour density       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical         Boiling Point:       : Not applicable       pH       : Not applical	Engineering measures				Provide
Calcium oxide       2 mg/m3       Time Weighted Average (TWA):       Dust.       ACC         5 mg/m3       PEL:       Dust.       OSH.         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       : liquid       Evaporation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not determi         Color       : YELLOW       Bulk density       : Not applical         Odor       : Very faint       Vapor pressure       : Not determi         Boiling Point:       : Not applicable       pH       : Not applical         Mot applicable         10. STABILITY AND REACTIVITY	Exposure limit(s)	-,	rrr	,,,,,,	
Calcium oxide       2 mg/m3       Time Weighted Average (TWA):       Dust.       ACC         5 mg/m3       PEL:       Dust.       OSH.         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       : liquid       Evaporation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not determi         Color       : YELLOW       Bulk density       : Not applical         Odor       : Very faint       Vapor pressure       : Not determi         Boiling Point:       : Not applicable       pH       : Not applical         Mot applicable         10. STABILITY AND REACTIVITY	Components	Value	Exposure time	Exposure type	List:
5 mg/m3       PEL:       Dust.       OSH.         9. PHYSICAL AND CHEMICAL PROPERTIES         Form       : liquid       Evaporation rate       : Not establis         Appearance       : Viscous, liquid       Specific Gravity:       : Not determi         Color       : YELLOW       Bulk density       : Not applical         Odor       : Very faint       Vapor pressure       : Not determi         Melting point/range       : Not applicable       Vapour density       : Not determi         Boiling Point:       : Not applicable       pH       : Not applical         Water solubility       : Immiscible       Immiscible       Immiscible			Time Weighted Average		ACGI
Form: liquidEvaporation rate: Not establisAppearance: Viscous, liquidSpecific Gravity:: Not determiColor: YELLOWBulk density: Not applicalOdor: Very faintVapor pressure: Not determiMelting point/range: Not applicableVapour density: Not determiBoiling Point:: Not applicablepH: Not applicableWater solubility: ImmiscibleImmiscibleImmiscible		5 mg/m3		Dust.	OSHA Z
Appearance       : Viscous, liquid       Specific Gravity:       : Not determi         Color       : YELLOW       Bulk density       : Not applical         Odor       : Very faint       Vapor pressure       : Not determi         Melting point/range       : Not applicable       Vapour density       : Not determi         Boiling Point:       : Not applicable       pH       : Not applicable         Water solubility       : Immiscible       Immiscible       Immiscible		9. PHYSIO	CAL AND CHEMICAL PRO	OPERTIES	
Color       : YELLOW       Bulk density       : Not applical         Odor       : Very faint       Vapor pressure       : Not applical         Melting point/range       : Not applicable       Vapour density       : Not determi         Boiling Point:       : Not applicable       pH       : Not applicable         Water solubility       : Immiscible       Immiscible       Immiscible				oration rate : Not	established
Odor       : Very faint       Vapor pressure       : Not determi         Melting point/range       : Not applicable       Vapour density       : Not determi         Boiling Point:       : Not applicable       pH       : Not applicable         Water solubility       : Immiscible       Immiscible       Immiscible	Form	: liqui	d Evapo		
Melting point/range       : Not applicable       Vapour density       : Not determi         Boiling Point:       : Not applicable       pH       : Not applicable         Water solubility       : Immiscible       Immiscible       Immiscible <b>10. STABILITY AND REACTIVITY</b>	Appearance	: Visc	ous, liquid Specif		1' 1 1
Boiling Point:       : Not applicable       pH       : Not applicable         Water solubility       : Immiscible       Immiscible         10. STABILITY AND REACTIVITY	Appearance Color	: Visc : YEL	ous, liquid Specif LOW Bulk of	lensity : Not	
Water solubility : Immiscible 10. STABILITY AND REACTIVITY	Appearance Color Odor	: Visc : YEL : Very	ous, liquid Specif LOW Bulk ov faint Vapor	lensity : Not pressure : Not	determined
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Hazardous Polymerization : Will not occur.	Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Visc : YEL : Very : Not : Not : Imm 10. §	ous, liquid Specif LOW Bulk of 7 faint Vapor applicable Vapor applicable pH iscible	lensity : Not pressure : Not ir density : Not : Not	determined determined



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Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid decomposition, do not overheat.	l thermal
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents., Avoid with acetal homopolymers and acetal copolymers during pro-	
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of m (NOx), hydrogen chloride (HCl), other hazardous materials, smoke are all possible. Prolonged heating may result in pro- degradation. As a general rule of thumb, degradation begins after one hour at 177 °C (350 °F), after 10 minutes at 204 °C and within 5 minutes at 232 °C (450 °F).	and duct to occur
	11.7	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.

<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
1305-78-8	Calcium oxide	Irritant	Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
		Corrosive	Skin.

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.
Bioaccumulation Potential	: No data available
Additional advice	: No data available
	13. DISPOSAL CONSIDERATIONS
Product	: 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 materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION

PolyOne.

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U.S. DOT Classification	:	Refer to specific regulation.
ICAO/IATA (air)	:	Refer to specific regulation.
IMO / IMDG (maritime)	:	Refer to specific regulation.
	15	5. 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 Hazardous	s Sub	stances (40 CFR 302)
Not applicable		
Colifornia Proposition	:	Not applicable
California Proposition 65	•	
65 SARA Title III Section 302 Ex	trem	ely Hazardous Substance
65 SARA Title III Section 302 Ex Not applicable	trem	ely Hazardous Substance
65 SARA Title III Section 302 Ex Not applicable SARA Title III Section 313 To Not applicable	atrem	ely Hazardous Substance Chemicals:
65 SARA Title III Section 302 Ex Not applicable SARA Title III Section 313 To Not applicable Canadian Regulations:	atrem	ely Hazardous Substance Chemicals:
65 SARA Title III Section 302 Ex Not applicable SARA Title III Section 313 To Not applicable Canadian Regulations: National Pollutant Rele	atrem oxic C ase In	ely Hazardous Substance Chemicals:
65 SARA Title III Section 302 Ex Not applicable SARA Title III Section 313 To Not applicable Canadian Regulations: National Pollutant Rele Not applicable	atrem oxic C ase In	ely Hazardous Substance Chemicals: nventory (NPRI)
65 SARA Title III Section 302 Ex Not applicable SARA Title III Section 313 To Not applicable Canadian Regulations: National Pollutant Rele Not applicable WHMIS Classification	atrem oxic C ase In	ely Hazardous Substance Chemicals: nventory (NPRI) Not controlled. All components of this product are on the Canadian Domestic
65 SARA Title III Section 302 Ex Not applicable SARA Title III Section 313 To Not applicable Canadian Regulations: National Pollutant Rele Not applicable WHMIS Classification DSL	atrem oxic C ase In	ely Hazardous Substance Chemicals: nventory (NPRI) Not controlled. All components of this product are on the Canadian Domestic

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Europe EINECS	: Not determined	
Japan ENCS	: Not determined	
Korea KECI	: Not determined	
Philippines PICCS	: 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 when used in combination with any other materials and/or in any particular process or processing conditions.