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SAFETY DATA SHEET

MB201

Section 1. Identification	n	
GHS product identifier	:	MB201
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	EM10035269
Product type	:	solid
<u>Relevant identified uses of the subs</u> Product use	tance :	or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

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. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

GHS label elements



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Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	EM10035269

CAS number/other identifiers

Ingredient name	%	CAS number
Antimony trioxide	10 - 30	1309-64-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.



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Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated
Ingestion	 clothing and shoes. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/effects, acut	e and delayed
Potential acute health effects	
Inhalation Skin contact	 No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Inhalation Skin contact	 No specific data. No specific data. No specific data. No specific data.
2	-
Indication of immediate medical atten	tion and special treatment needed, if necessary
	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
	 No action shall be taken involving any personal risk or without suitable training.
San toricological information (Santian	

See toxicological information (Section 11)

Section 5. Fire-fighting measures



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Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up			
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.	
Large spill	:	Move containers from spill area. Prevent entry into sewers, water	
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courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Antimony trioxide	OSHA PEL (1993-06-30) expressed as Sb
	PEL: Permissible Exposure Level 0.5 mg/m3
	NIOSH REL (1994-06-01) expressed as Sb
	Time Weighted Average (TWA) 0.5 mg/m3
	OSHA PEL 1989 (1989-03-01) expressed as Sb
	PEL: Permissible Exposure Level 0.5 mg/m3
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of
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Individual protection management	environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures Eye/face protection	 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state Color	solid [Pellets.] NO PIGMENT
Odor	: Faint odor.
Odor threshold	: Not available.
pH	: Not available.



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Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
		Not available.
Auto-ignition temperature	•	
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 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.

Information on toxicological effects



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Acute toxicity

	1	T			r
Product/ingredient name	Result	Species	6	Dose	Exposure
Antimony trioxide					
	LD50 Oral	Rat		34,000 mg/kg	-
Conclusion/Summary	: N	o results avai	lable.		
Irritation/Corrosion					
In matton/ Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild	Rabbit			-
	irritant				
Conclusion/Summary					
Skin		o results avai	lable.		
Eyes		lixture.			
Respiratory	: N	lixture.			
Sensitization					
SCHSHUZAUUH					
Conclusion/Summary					
Skin	: N	o results avai	lable.		
Respiratory	Mixture.				
Mutagenicity					
Conclusion/Summary	: N	o results avai	lable.		
Carcinogenicity					
Carcinogenicity					
Conclusion/Summary	: N	o results avai	lable.		
<u>Classification</u>					
Product/ingredient	OSHA	IARC	NTP		
name					
Antimony trioxide		2B			
					
<u>Reproductive toxicity</u>					
Conclusion/Summary	: N	o results avai	lable		
Conclusion/Summary	• 1	o results avai	10010.		
Teratogenicity					
<u> </u>					
Conclusion/Summary	: N	o results avai	lable.		
·					

Specific target organ toxicity (single exposure)

Not available.

PolyOne.

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Specific target organ toxicity (repeated exposure) Not available.	
Aspiration hazard Not available.	
Information on the likely routes of : Not available. exposure	

Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Exposure to decomposition products may cause a health hazard.
		Serious effects may be delayed following exposure.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects:Potential delayed effects:	Not available. Not available.
Long term exposure	
Potential immediate effects:Potential delayed effects:Potential chronic health effects	Not available. Not available.
Conclusion/Summary :	No results available.
General:Carcinogenicity:Mutagenicity:Teratogenicity:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.



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Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure	
Antimony trioxide				
	Acute LC50 > 530 mg/l Fresh	Fish - Bluegill	96 h	
	water			
	Acute LC50 > 1,000,000 μg/l	Fish - Mummichog	96 h	
	Marine water			
	Acute EC50 423,450 µg/l Fresh	Aquatic invertebrates.	48 h	
	water	Water flea		
	Acute EC50 730 µg/l Fresh water	Aquatic plants - Green algae	72 h	
	Acute EC50 760 µg/l Fresh water	Aquatic plants - Green algae	96 h	
	Acute EC50 740 µg/l Fresh water	Aquatic plants - Green algae	96 h	
MB201				
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available as they are bound within the polymer matrix			
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.			
Persistence and degradability	<u>Y</u>			
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ly available as they are bound	nd within the	
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ily available as they are bound	nd within the	



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Bioaccumulative potential <u>Mobility in soil</u>

Soil/water partition coefficient:Not available.(KOC):No known significant effects or critical hazards.

:

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

Section 15. Regulatory information

United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Listed	U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None of the components are listed.United States - TSCA 4(a) - Proposed test rules: Not listed
			listed

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1,1'-(Ethane-1,2-diyl)bis[pentabromobenzene]

United States - TSCA 6 - Proposed risk management: Listed Lead

United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 6 - Final risk management: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Antimony trioxide Arsenic Lead

United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b) : Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I : Substances Clean Air Act Section 602 Class II : Substances DEA List I Chemicals (Precursor Chemicals) DEA List II Chemicals (Essential Chemicals)

Not listed

Not listed

Not listed

Listed

- Not fisted
- : Not listed



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US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Arsenic	7440-38-2	1 lb(s)
		0.454 kg
Antimony trioxide	1309-64-4	1,000 lb(s)
-		454 kg
		-

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Antimony trioxide	10 - 30	АН, СН

SARA 313

	Product name	CAS number	%
Form R - Reporting	Antimony trioxide	1309-64-4	10 - 30
requirements			
Supplier notification	Antimony trioxide	1309-64-4	10 - 30

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations	
Massachusetts	: The following components are listed:
	Antimony trioxide
New York	: The following components are listed:
	Antimony trioxide
New Jersey	: The following components are listed:
	Antimony trioxide
Pennsylvania	: The following components are listed:
-	Antimony trioxide

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

United States inventory (TSCA 8b) : All components are listed or exempted.

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Canada inventory	:	Not determined.
International regulations		
International lists	:	 Australia inventory (AICS): Not determined. Taiwan inventory (CSNN): Not determined. EINECS: All components are listed or exempted. Japan inventory: Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Malaysia Inventory (EHS Register): Not determined. China inventory (IECSC): Not determined. Philippines inventory (PICCS): Not determined. Korea inventory: Not determined.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

Section 16. Other information

History		
Date of printing	:	08/20/2015
Date of issue/Date of revision	:	08/19/2015
Date of previous issue	:	04/08/2015
Version	:	1.1
Key to abbreviations References	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-



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named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.