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SAFETY DATA SHEET

LDPMMA 178875

Section 1. Identification			
GHS product identifier	:	LDPMMA 178875	
Chemical name	:	Mixture	
CAS number	:	Mixture	
Other means of identification	:	CC10178875	
Product type	:	solid	
	stance	e or mixture and uses advised against	
Product use	:	Industrial applications. Plastics.	
Supplicate details		POLYONE CORPORATION	
Supplier's details	:		
		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.
		r

Classification of the substance or : Not classified. **mixture**

GHS label elements

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Signal word	:	No signal word.
Hazard statements	:	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.

: None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10178875

CAS number/other identifiers

Hazards not otherwise classified

Ingredient name	%	CAS number
2-Propenoic acid, 2-methyl-, methyl ester	0.1 - 1	80-62-6

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.
Inhalation	:	Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable



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Skin contact : Ingestion :	for breathing. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated 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	
Eye contact	0
	No known significant effects or critical hazards.
Skin contact	0
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medical atten	tion and special treatment needed, if necessary
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments :	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.
See toxicological information (Section	11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. None known.
Specific hazards arising from the	:	No specific fire or explosion hazard.

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chemical	

Hazardous thermal decomposition products	:	Decomposition products may include the following materials: sulfur oxides 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	nt a	nd 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 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

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2-Propenoic acid, 2-methyl-, methyl ester	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 410 mg/m3 100 ppm OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 410 mg/m3 100 ppm NIOSH REL (1994-06-01) Time Weighted Average (TWA) 410 mg/m3 100 ppm ACGIH TLV (2000-03-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 50 ppm TLV-STEL: Threshold Limit Value - Short Time Exposure Level 100 ppm
Appropriate engineering controls:Environmental exposure controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of 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

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Hygiene measures	: 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.
Eye/face protection	: 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	:	solid [Pellets.]
Color	:	NO PIGMENT
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.

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		NT
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.
Auto-ignition temperature	:	Not available.
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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propenoic acid, 2-methyl-, m	nethyl ester			
	LD50 Oral	Rat	7,872 mg/kg	-

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1	LC50 Inhalation	Rat	78 m	σ/l	4 h
	LD50 Dermal	Rabbit) mg/kg	-
Conclusion/Summary		ture.Not full		, mg, ng	
			<i>y</i>		
Irritation/Corrosion					
Conclusion/Summary					
Skin		ture.Not full			
Eyes		ture.Not full ture.Not full			
Respiratory	: Mix	ture.not iun	y tested.		
Sensitization					
Conclusion/Summary					
Skin		ture.Not full			
Respiratory	: Mix	ture.Not full	y tested.		
Mutagenicity					
Conclusion/Summary	: Mix	ture.Not full	y tested.		
Carcinogenicity					
Conclusion/Summary Classification	: Mix	ture.Not full	y tested.		
Product/ingredient name	OSHA	IARC	NTP		
2-Propenoic acid, 2-		3			
methyl-, methyl ester					
<u>Reproductive toxicity</u>					
Conclusion/Summary	: Mix	ture.Not full	y tested.		
<u>Teratogenicity</u>					
Conclusion/Summary	: Mix	ture.Not full	y tested.		
Specific target organ toxicit	<u>y (single exposure</u>	<u>)</u>			
Product/ingredient name	Category		oute of exposure	Target orga	
2-Propenoic acid, 2-methyl-,	Category 3			Respiratory	tract irritation
methyl ester					

Specific target organ toxicity (repeated exposure)

Not available.

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Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	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.
Symptoms related to the physical, ch	emi	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	::	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and a	lso c	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	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:::::::::::::::::::::::::::::::::::::::	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

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Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

nethyl ester		
Acute LC50 159,100 µg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 191,000 µg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 130,000 µg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 150,000 µg/l Fresh	Fish - Fish	96 h
water		
Acute LC50 160,200 µg/l Fresh	Fish - Fish	96 h
water		
Chemicals are not readily available as they are bound within the polymer matrix.		
: Chemicals are not read polymer matrix.	lily available as they ar	e bound within the
<u>v</u>		
: Chemicals are not read polymer matrix.	lily available as they ar	e bound within the
: Chemicals are not read polymer matrix.	lily available as they ar	e bound within the
	 water Acute LC50 191,000 µg/l Fresh water Acute LC50 130,000 µg/l Fresh water Acute LC50 150,000 µg/l Fresh water Acute LC50 160,200 µg/l Fresh water Chemicals are not readily available : Chemicals are not readily available 	water Acute LC50 191,000 µg/l Fresh Fish - Fish Acute LC50 130,000 µg/l Fresh Fish - Fish Acute LC50 150,000 µg/l Fresh Fish - Fish Acute LC50 160,200 µg/l Fresh Fish - Fish Acute LC50 160,200 µg/l Fresh Fish - Fish Chemicals are not readily available as they are bound with : Chemicals are not readily available as they are polymer matrix. : Chemicals are not readily available as they are polymer matrix. :

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Propenoic acid, 2-methyl-,	1.38	-	low
methyl ester			

Mobility in soil

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Soil/water partition coefficient	:	Not available.
(KOC) Other adverse effects	:	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

U.S. Federal regulations	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed
	listed United States - TSCA 5(a)2 - Proposed significant new use rules:
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Not listed	
United State	s - TSCA 5(e) - Substances consent order: Not listed
United State	s - TSCA 6 - Final risk management: Not listed
United State	s - TSCA 6 - Proposed risk management: Not listed
United State	s - TSCA 8(a) - Chemical risk rules: Not listed
United State	s - TSCA 8(a) - Dioxin/Furane precusor: Not listed
United State	s - TSCA 8(a) - Chemical Data Reporting (CDR): No
determined	
United State	s - TSCA 8(a) - Preliminary assessment report
(PAIR): Not	listed
United State	s - TSCA 8(c) - Significant adverse reaction (SAR):
Not listed	
United State	s - TSCA 8(d) - Health and safety studies: Not listed
United State	s - EPA Clean water act (CWA) section 307 - Priority
pollutants: 1	Not listed
United State	s - EPA Clean water act (CWA) section 311 -
Hazardous s	ubstances: Listed
United State	s - EPA Clean air act (CAA) section 112 - Accidental
release preve	ention - Flammable substances: Not listed
United State	s - EPA Clean air act (CAA) section 112 - Accidental
release preve	ention - Toxic substances: Not listed
United State	s - Department of commerce - Precursor chemical:
Not listed	-

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I	:	Not listed
Substances		
Clean Air Act Section 602 Class II	:	Not listed
Substances		NT - 11 - 1
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
2-Propenoic acid, 2-methyl-,	0.1 - 1	F, AH

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methyl ester		
SARA 313 Not applicable.		
<u>State regulations</u> Massachusetts	: The following components are listed:	
N X71-	Barium sulfate	
New York	: None of the components are listed.	
New Jersey	: The following components are listed: Barium sulfate	
Pennsylvania	: The following components are listed: Barium sulfate	

California Prop. 65

This PolyOne product does not contain any chemical known to the State of California to cause cancer, or birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65. This statement relies in part on information provided by the buyer of this PolyOne product. PolyOne does not control or have complete knowledge of the end uses to which that buyer or any other entity in the chain of distribution and marketing may put this PolyOne product. Therefore, the buyer of this PolyOne product, each entity that uses this PolyOne product in formulating another product, and each entity in the chain of distribution and marketing of any product that includes the material in this PolyOne product must make its own decision as to giving a Proposition 65 warning. United States inventory (TSCA 8b) : All components are listed or exempted. Not determined. **Canada inventory** : **International regulations International lists** Australia inventory (AICS): Not determined. : Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. EINECS: All components are listed or exempted. Japan inventory: Not determined. China inventory (IECSC): Not determined. Korea inventory: Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention:Not listedList Schedule I Chemicals:Not listedChemical Weapons Convention:Not listedList Schedule II Chemicals:Not listedList Schedule III Chemicals:Not listed

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Section 16. Other information

History		
Date of printing	:	10/24/2015
Date of issue/Date of revision	:	10/23/2015
Date of previous issue	:	04/01/2013
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate
		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate 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
References	:	Not available.

Notice to reader

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