

## SAFETY DATA SHEET

**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 1 of 17  
Print Date 06/24/2017

# SAFETY DATA SHEET

## MASTERMIX RETARDER PX 4623 PASTE

### Section 1. Identification

GHS product identifier : MASTERMIX RETARDER PX 4623 PASTE  
 Chemical name : Mixture  
 CAS number : Mixture  
 Other means of identification : FO20009128  
 Product type : liquid

#### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications. Plastics.

Supplier's details : **POLYONE CORPORATION**  
 1675 Navarre Road SW, Massillon,  
 Ohio USA 44646

1 330 837 8679

Emergency telephone number (with hours of operation) : 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. 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 : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.1 %

#### GHS label elements

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 2 of 17  
Print Date 06/24/2017

**Hazard pictograms**

:


**Signal word**

:

Warning

**Hazard statements**

:

Harmful if swallowed.

:

Causes serious eye irritation.

:

Causes skin irritation.

**Precautionary statements**
**General**

:

Not applicable.

**Prevention**

:

Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response**

:

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage**

:

Not applicable.

**Disposal**

:

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**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**

:

FO20009128

**CAS number/other identifiers**

Ingredient name	%	CAS number
Phthalic Anhydride	60 - 100	85-44-9

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 3 of 17  
Print Date 06/24/2017

Petroleum distillates, hydrotreated heavy naphthenic	10 - 30	64742-52-5
Petroleum distillates, hydrotreated light naphthenic	5 - 10	64742-53-6

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. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## SAFETY DATA SHEET

**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 4 of 17  
Print Date 06/24/2017

**Most important symptoms/effects, acute and delayed**
**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : Harmful if swallowed.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

**Indication of immediate medical attention 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** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

**Section 5. Firefighting measures**
**Extinguishing media**

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal** : Decomposition products may include the following materials:

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 5 of 17  
Print Date 06/24/2017

<b>decomposition products</b>	carbon dioxide carbon monoxide
<b>Special protective actions for fire-fighters</b>	: 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.
<b>Special protective equipment for fire-fighters</b>	: 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**

<b>For non-emergency personnel</b>	: 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: If specialized 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".
<b>Environmental precautions</b>	: 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**

<b>Small spill</b>	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<b>Large spill</b>	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 6 of 17  
Print Date 06/24/2017

contact information and Section 13 for waste disposal.

**Section 7. Handling and storage**
**Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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**

<b>Ingredient name</b>	<b>Exposure limits</b>
Petroleum distillates, hydrotreated light naphthenic	<b>ACGIH TLV (2009-11-30)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 5 mg/m <sup>3</sup> Form: Inhalable fraction
Petroleum distillates, hydrotreated heavy naphthenic	<b>ACGIH TLV (2009-11-30)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 5 mg/m <sup>3</sup> Form: Inhalable fraction

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 7 of 17  
Print Date 06/24/2017

Phthalic Anhydride	<p><b>OSHA PEL 1989 (1989-03-01)</b> PEL: Permissible Exposure Level 6 mg/m<sup>3</sup> 1 ppm</p> <p><b>OSHA PEL (1993-06-30)</b> PEL: Permissible Exposure Level 12 mg/m<sup>3</sup> 2 ppm</p> <p><b>NIOSH REL (1994-06-01)</b> Time Weighted Average (TWA) 6 mg/m<sup>3</sup> 1 ppm</p> <p><b>ACGIH TLV (2000-03-01)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 6.1 mg/m<sup>3</sup> 1 ppm</p>
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- 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 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** : 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: chemical splash goggles.

**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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 8 of 17  
Print Date 06/24/2017

- Other skin protection** : approved by a specialist before handling this product.  
: 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Section 9. Physical and chemical properties**
**Appearance**

- Physical state** : liquid [Paste.]  
**Color** : NO PIGMENT  
**Odor** : Not available.  
**Odor threshold** : Not available.  
**pH** : Not available.  
**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 (flammable) limits** : **Lower:** Not available.  
**Upper:** Not available.  
**Vapor pressure** : Not available.  
**Vapor density** : Not available.  
**Relative density** : Not available.  
**Solubility** : Not available.  
**Solubility in water** : Not available.  
**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



## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

 Version Number 1.5  
 Revision Date 06/23/2017

 Page 9 of 17  
 Print Date 06/24/2017

- 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
Petroleum distillates, hydrotreated light naphthenic				
	LD50 Oral	Rat	5,000 mg/kg	-
	LC50 Inhalation	Rat	2.18 mg/l	4 h
Petroleum distillates, hydrotreated heavy naphthenic				
	LD50 Oral	Rat	5,000 mg/kg	-
Phthalic Anhydride				
	LD50 Oral	Rat	1,530 mg/kg	-

**Conclusion/Summary** : Mixture. Not fully tested.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Petroleum distillates, hydrotreated light naphthenic	Skin - Severe irritant	Rabbit			-
	Skin - Moderate irritant	Rabbit		24 hrs	-
Petroleum distillates, hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit			-
	Skin - Severe irritant	Rabbit			-

## SAFETY DATA SHEET

**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 10 of 17  
Print Date 06/24/2017

Phthalic Anhydride	Eyes - Moderate irritant	Rabbit		24 hrs	-
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**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Sensitization****Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity****Conclusion/Summary**

: Mixture.Not fully tested.

**Carcinogenicity****Conclusion/Summary**

: Mixture.Not fully tested.

**Reproductive toxicity****Conclusion/Summary**

: Mixture.Not fully tested.

**Teratogenicity****Conclusion/Summary**

: Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

: Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.

## SAFETY DATA SHEET

**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 11 of 17  
Print Date 06/24/2017

**Skin contact** : Causes skin irritation.  
**Ingestion** : Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**
**Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Mixture. Not fully tested.

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**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**

Route	ATE value
Oral	1,985 mg/kg
Route	ATE value

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

 Version Number 1.5  
 Revision Date 06/23/2017

 Page 12 of 17  
 Print Date 06/24/2017

Inhalation (dusts and mists)	29.07 mg/l
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**Section 12. Ecological information**
**Toxicity**

Product/ingredient name	Result	Species	Exposure
Phthalic Anhydride			
	Acute EC50 41,400 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute EC50 147 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute EC50 78,530 µg/l Fresh water	Aquatic plants - Algae	96 h

**Conclusion/Summary** : Not available.

**Persistence and degradability**
**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Phthalic Anhydride	1.6	3.40	low

**Mobility in soil**
**Soil/water partition coefficient (KOC)** : Not available.

**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

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 13 of 17  
Print Date 06/24/2017

when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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:** Listed

Ingredient	CAS #	Status	Reference number
Phthalic Anhydride	85-44-9	Listed	

**Section 14. Transport information**

U.S.DOT 49CFR  
Ground/Air/Water : Not regulated for transportation.

International Air  
ICAO/IATA : Consult mode specific transport rules

International Water  
IMO/IMDG : Consult mode specific transport rules

**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
- United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
- United States - TSCA 5(e) - Substances consent order:** Not listed
- United States - TSCA 6 - Final risk management:** Not listed
- United States - TSCA 6 - Proposed risk management:** Not listed
- United States - TSCA 8(a) - Chemical risk rules:** Not listed
- United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed

## SAFETY DATA SHEET

**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 14 of 17  
Print Date 06/24/2017

**United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined  
**United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Not listed  
**United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed  
**United States - TSCA 8(d) - Health and safety studies:** Not listed  
**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Not listed  
**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Not 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) :** Listed  
**Hazardous Air Pollutants (HAPs)**  
**Clean Air Act Section 602 Class I Substances :** Not listed  
**Clean Air Act Section 602 Class II Substances :** Not listed  
**DEA List I Chemicals (Precursor Chemicals) :** Not listed  
**DEA List II Chemicals (Essential Chemicals) :** Not listed

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

Chemical Name	CAS-No.	RQ for component
Phthalic Anhydride	85-44-9	5,000 lb(s) 2,270 kg

**SARA 311/312**

**Classification :** Immediate (acute) health hazard

**Composition/information on ingredients**

Name	%	Classification
Petroleum distillates, hydrotreated light naphthenic	5 - 10	AH

## SAFETY DATA SHEET


**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 15 of 17  
Print Date 06/24/2017

Petroleum distillates, hydrotreated heavy naphthenic	10 - 30	AH
Phthalic Anhydride	60 - 100	AH

**SARA 313**

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	Phthalic Anhydride	85-44-9	60 - 100
<b>Supplier notification</b>	Phthalic Anhydride	85-44-9	60 - 100

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** : None of the components are listed.
- New York** : The following components are listed:  
Phthalic Anhydride
- New Jersey** : The following components are listed:  
Phthalic Anhydride
- Pennsylvania** : The following components are listed:  
Phthalic Anhydride

**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.
- Canada inventory** : All components are listed or exempted.

**International regulations****Inventory list**

- Australia** : Not determined.
- Canada** : All components are listed or exempted.
- China** : Not determined.
- Europe inventory** : All components are listed or exempted.

## SAFETY DATA SHEET

**MASTERMIX RETARDER PX 4623 PASTE**

Version Number 1.5  
Revision Date 06/23/2017

Page 16 of 17  
Print Date 06/24/2017

Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

**Section 16. Other information**
**Hazardous Material Information System (U.S.A.) :**

Health	*	2
Flammability		0
Physical hazards		0

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.**

The customer is responsible for determining the PPE code for this material.

**History**

Date of printing	:	06/24/2017
Date of issue/Date of revision	:	06/23/2017
Date of previous issue	:	02/21/2017
Version	:	1.5

**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 = 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**

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SAFETY DATA SHEET



**MASTERMIX RETARDER PX 4623 PASTE**

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Revision Date 06/23/2017

Page 17 of 17  
Print Date 06/24/2017

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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.