

## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 1 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

# SAFETY DATA SHEET

#### D2163BOHD 85DURO PMS179C HIDI

## **Section 1. Identification**

**GHS** product identifier D2163BOHD 85DURO PMS179C HIDI

Chemical name Mixture CAS number Mixture FO00003227 Other means of identification **Product type** liquid

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

**Product use** Industrial applications. Plastics.

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).

## Section 2. Hazards identification

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. 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.

**OSHA/HCS** status While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees

and other users of this product.

Classification of the substance or

mixture

Not classified.

Supplemental label elements None known.



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 2 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

**Hazards not otherwise classified** : None known.

# Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: FO00003227

#### CAS number/other identifiers

Ingredient name	%	CAS number
Lead oxide sulfate (Pb4O3(SO4))	1 - 5	12202-17-4
Lead chromate	1 - 5	7758-97-6

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. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable
	for breathing. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated
	clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 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.



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 3 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.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 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.

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 CO<sub>2</sub>.

: 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 emit Hydrogen Chloride (HCl).

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015 Page 4 of 15 Print Date 03/04/2015

Special protective actions for firefighters 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 selfcontained 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 : 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.

For emergency responders : 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 : 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.

Large spill : Stop leak if without risk. Move containers from spill area. 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. Note: see Section

1 for emergency contact information and Section 13 for waste

disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015 Page 5 of 15 Print Date 03/04/2015

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	
Lead oxide sulfate (Pb4O3(SO4))	OSHA PEL 1989 (1989-03-01) Calculated as Pb	
	PEL: Permissible Exposure Level 0.075 mg/m3	
	ACGIH TLV (1995-05-23) Calculated as Pb	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
	Permissible Exposure Level 0.05 mg/m3	
Lead chromate	ACGIH TLV (2012-03-05) Calculated as Cr	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
	Permissible Exposure Level 0.012 mg/m3	
	ACGIH TLV (1994-09-01) Calculated as Pb	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
	Permissible Exposure Level 0.05 mg/m3	
	OSHA PEL (2006-11-27) Calculated as Cr	
	PEL: Permissible Exposure Level 0.005 mg/m3	
	OSHA PEL Z2 (2006-11-27)	
	Ceiling 0.001 mg/m3	
	NIOSH REL (2010-09-01) Calculated as Cr	
	Time Weighted Average (TWA) 0.0002 mg/m3	
	OSHA PEL 1989 (1989-03-01) Calculated as CrO3	
	Ceiling 0.1 mg/m3	
	OSHA PEL 1989 (1989-03-01) Calculated as Pb	



# D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015 Page 6 of 15 Print Date 03/04/2015

		PEL: Permissible Exposure Level 0.075 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 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: 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.	
<b>Body protection</b>	:	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, air-purifying or air-fed 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.	



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 7 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state liquid [liquid] Color **ORANGE** Not available. Odor **Odor threshold** Not available. Not available. pН **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. Not available. **Burning rate** Not available. **Evaporation rate** Flammability (solid, gas) Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.SolubilityNot available.Solubility in waterNot available.Partition coefficient: n-Not available.

octanol/water

products

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** : Avoid contact with acetal homopolymers and acetyl homopolymers

during processing.

**Hazardous decomposition** : Under normal conditions of storage and use, hazardous decomposition

products should not be produced.



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015 Page 8 of 15 Print Date 03/04/2015

# 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** 

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

**Irritation/Corrosion** 

Conclusion/Summary

SkinMixture.Not fully tested.EyesMixture.Not fully tested.RespiratoryMixture.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.

Classification

Product/ingredient	OSHA	IARC	NTP
name			
Lead oxide sulfate			Reasonably anticipated to be a human carcinogen.
(Pb4O3(SO4))			
Lead chromate	+	1	

#### Reproductive toxicity

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

#### **Teratogenicity**



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 9 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

**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 the likely routes of

Not available.

exposure

#### Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.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 : 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.



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 10 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

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** 

Not available.

# **Section 12. Ecological information**

**Toxicity** 

**Conclusion/Summary** : Not available.

Persistence and degradability

**Conclusion/Summary** : Not available.

Bioaccumulative potential

**Mobility in soil** 

Soil/water partition coefficient :

(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

Not available.

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



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015 Page 11 of 15 Print Date 03/04/2015

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 : Consult mode specific transport rules

IMO/IMDG (maritime) : Consult mode specific transport rules

# Section 15. Regulatory information

U.S. Federal regulations

United States - TSCA 12(b) - Chemical export notification: The

following components are listed: Lead chromate

United States - TSCA 4(a) - Final Test Rules: Listed 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich Diisodecyl phthalate

United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules:

Listed Lead chromate

Lead sulfate

United States - TSCA 5(a)2 - Proposed significant new use rules:

Listed Lead chromate

Lead sulfate

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Listed Lead chromate

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 precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015

Page 12 of 15 Print Date 03/04/2015

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 - TSCA 4(a) - Proposed test rules: Not listed

United States - EPA Clean water act (CWA) section 307 - Priority

pollutants: Listed Lead oxide sulfate (Pb4O3(SO4))

Lead chromate Diisodecvl phthalate

Lead sulfate

Antimony trioxide

**Cadmium** Zinc

Phenol

Vinyl chloride monomer

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**)

Listed

Not listed

Not listed

Not listed

Not listed

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

Chemical Name	CAS-No.	RQ for component
Lead sulfate	7446-14-2	
		10 lb(s)
		4.54 kg
		_



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 13 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

### **SARA 311/312**

**Classification** : Not applicable.

### **Composition/information on ingredients**

Name	%	Classification
Lead oxide sulfate (Pb4O3(SO4))	1 - 5	СН
Lead chromate	1 - 5	СН

#### **SARA 313**

	Product name	CAS number	0/0
Form R - Reporting requirements	Lead oxide sulfate (Pb4O3(SO4))	12202-17-4	1 - 5
	Lead chromate	7758-97-6	1 - 5
	Lead sulfate	7446-14-2	0 - 0.1
Supplier notification	Lead oxide sulfate (Pb4O3(SO4))	12202-17-4	1 - 5
	Lead chromate	7758-97-6	1 - 5
	Lead sulfate	7446-14-2	0 - 0.1

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:

Lead chromate

New York : None of the components are listed.

New Jersey : The following components are listed:

Ethene, chloro-, homopolymer

Lead oxide sulfate (Pb4O3(SO4))

Lead chromate

**Pennsylvania** : The following components are listed:

Lead oxide sulfate (Pb4O3(SO4))

Lead chromate



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Page 14 of 15 Revision Date 03/03/2015 Print Date 03/04/2015

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

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

**International regulations** 

International lists : Australia inventory (AICS): Not determined.

Taiwan inventory (CSNN): Not determined.

Malaysia Inventory (EHS Register): Not determined.

**EINECS:** Not determined.

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** 

List Schedule I Chemicals

**Chemical Weapons Convention** 

**List Schedule II Chemicals** 

**Chemical Weapons Convention** 

**List Schedule III Chemicals** 

Not listed

Not listed

Not listed

## Section 16. Other information

History

Date of printing: 03/04/2015Date of issue/Date of revision: 03/03/2015Date of previous issue: 02/27/2015Version: 1.7

**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



## D2163BOHD 85DURO PMS179C HIDI

Version Number 1.7 Revision Date 03/03/2015 Page 15 of 15 Print Date 03/04/2015

**References** : Not available.

### Notice to reader

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