

## MATERIAL SAFETY DATA SHEET

**DB-135A BROWN**

Version Number 1.0  
Revision Date 11/11/2002

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**POLYONE CORPORATION**  
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800  
**Emergency telephone number** : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : DB-135A BROWN  
 Product code : FO00003506  
 Chemical Name : Mixture  
 CAS-No. : Mixture  
 Product Use : Industrial Applications

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Lead chromate	7758-97-6	0.1 - 1
Molybdate orange (Lead chromate pigment)	12656-85-8	0.1 - 1
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	1 - 5
Barium sulfate	7727-43-7	5 - 10

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

#### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** : Inhalation, Skin contact, Ingestion

#### Acute exposure

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.  
 Ingestion : May be harmful if swallowed.  
 Eyes : May cause eye/skin irritation.  
 Skin : Experience shows no unusual dermatitis hazard from routine handling.

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**Chronic exposure** : Refer to Section 11 for Toxicological Information.

**Medical Conditions** : None known.

**Aggravated by Exposure:**

**4. FIRST AID MEASURES**

**Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.

**Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.

**Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

**5. FIRE-FIGHTING MEASURES**

**Flash point** : No data available.

**Flammable Limits**

Upper explosion limit : No data available.

Lower explosion limit : No data available.

**Autoignition temperature** : Not applicable.

**Suitable extinguishing media** : Carbon dioxide blanket, dry powder, foam, Water spray.

**Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

**Unusual Fire/Explosion Hazards** : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

**Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

**Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

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- Handling : Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Respiratory protection : Under normal handling conditions a respirator may not be required.
- Eye/Face Protection : Safety glasses with side-shields.
- Hand protection : Protective gloves.
- Skin and body protection : Long sleeved clothing.
- Additional Protective Measures : Safety shoes.
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

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Components	Value	Exposure time	Exposure type	List:
Barium sulfate	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Total dust.	ACGIH
Barium sulfate	5 mg/m <sup>3</sup>	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m <sup>3</sup>	PEL:	Total dust.	OSHA Z1
Lead chromate	1 mg/m <sup>3</sup>	PEL:	as Cr	OSHA Z1
Lead chromate	0.05 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Dust. as Pb	OSHA
	0.03 mg/m <sup>3</sup>	OSHA Action level:	Dust. as Pb	OSHA
	0.012 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Cr	ACGIH
	0.05 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Pb	ACGIH
Molybdate orange (Lead chromate pigment)	1 mg/m <sup>3</sup>	PEL:	as Cr	OSHA Z1
Molybdate orange (Lead chromate pigment)	0.05 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Pb	OSHA
	0.10 mg/m <sup>3</sup>	Ceiling Limit Value:	as CrO <sub>3</sub>	OSHA Z2
Molybdate orange (Lead chromate pigment)	0.01 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Cr(VI)	ACGIH
Molybdate orange (Lead chromate pigment)	0.05 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Pb	ACGIH
Petroleum distillates, hydrotreated light naphthenic	500 ppm 2,000 mg/m <sup>3</sup>	PEL:	Vapor.	OSHA Z1

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid	Evaporation rate	: Not established
Appearance	: Viscous, Liquid	Specific Gravity	: Not determined
Color	: BROWN	Bulk density	: Not applicable.
Odor	: Very faint	Vapor pressure	: Not determined
Melting point/range	: Not applicable	Vapor density	: Not determined
Boiling Point:	: Not applicable	pH	: Not applicable.
Water solubility	: Immiscible		

**10. STABILITY AND REACTIVITY**

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.

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- Incompatible Materials : Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.
- Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

**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.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
7758-97-6	Lead chromate	Systemic effects	central nervous system, reproductive system.
12656-85-8	Molybdate orange (Lead chromate pigment)	Irritant	Eyes, Skin.
		Systemic effects	central nervous system, reproductive system.
64742-53-6	Petroleum distillates, hydrotreated light naphthenic	Irritant	Eyes, Skin.
7727-43-7	Barium sulfate	Irritant	Respiratory system.
		Systemic effects	Eyes, Respiratory system.

**LC50 / LD50**

This product contains the following components which in their pure form have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
7758-97-6	Lead chromate	Oral LD50	> 12 gm/kg	mouse

**Carcinogenicity:**

This product contains the following components which in their pure form have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
7758-97-6	Lead chromate	no	no	1
12656-85-8	Molybdate orange (Lead chromate pigment)	no	no	1

**IARC Carcinogen Classifications:**

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

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2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

**Additional Health Hazard Information:**

**Lead chromate 7758-97-6 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".**

**Additional Health Hazard Information:**

**Molybdate orange (Lead chromate pigment) 12656-85-8 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".**

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Environmental toxicity has not been established for this mixture as a whole.

Bioaccumulation Potential : No data available.

Additional advice : No data available.

**13. DISPOSAL CONSIDERATIONS**

Product : Where possible, recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

**14. TRANSPORT INFORMATION**

U.S. DOT Classification : Refer to specific regulation.

ICAO/IATA : Refer to specific regulation.

IMO / IMDG : Refer to specific regulation.

**15. REGULATORY INFORMATION**

US Regulations:

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OSHA Status : Classified as hazardous based on components.

TSCA Status : The TSCA status of this product is currently under review.

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

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Sodium hydroxide (Na(OH))	1310-73-2	0.7242	1,000 lbs	138,083 LB

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
CHROMIUM VI COMPOUNDS LEAD COMPOUNDS, INORGANIC	7758-97-6	00.09
LEAD COMPOUNDS, INORGANIC	7446-14-2	00.00
CHROMIUM VI COMPOUNDS LEAD COMPOUNDS, INORGANIC	12656-85-8	00.22

## Canadian Regulations:

WHMIS Classification : D2A

## WHMIS Ingredient Disclosure List

CAS-No.
7758-97-6
12656-85-8

DSL : DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

## National Inventories:

Australia AICS : Listed.

China IECS : Listed.

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Europe EINECS : Not determined.

Japan ENCS : Not determined.

Korea KECI : Not determined.

Philippines PICCS : Not determined.

**16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.