

#### MATERIAL SAFETY DATA SHEET

# **A1423 BROWN**

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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	:	A1423 BROWN
Product code	:	FO00012847
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	0.1 - 1
Lead chromate	7758-97-6	0.1 - 1
Methyl ethyl ketone	78-93-3	10 - 30
Tetrahydrofuran	109-99-9	10 - 30

#### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

Flammable. May be harmful if inhaled. Harmful if swallowed. May cause skin irritation. Flammable liquid and vapor. Vapors may be irritating to eyes and respiratory tract. 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. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details.

#### POTENTIAL HEALTH EFFECTS

: Inhalation, Skin contact, Ingestion
: Excessive inhalation of product vapors may cause respiratory irritation, headaches, dizziness, and/or nausea.
: May be harmful if swallowed. May cause nausea, abdominal spasms and irritation of the mucous membranes.
: Liquid, aerosol, or vapors of this product are irritating and may cause tearing, reddening, and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.



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Skin	: Prolonged or repeated skin contact can cause de-fatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne contamina
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of vapours or decomposition products. Seek medical attention after significant exposure.
Ingestion	: Do not induce vomiting without medical advice. If conscious, drink plenty of water. Seek medical attention if necessary.
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. If ey irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Less than 75 °F (24 °C)
Flammable Limits	
Upper explosion limit	: No data available.
Lower explosion limit Autoignition temperature	<ul> <li>No data available.</li> <li>No data available.</li> </ul>
Suitable extinguishing media	foam, dry chemical, carbon dioxide (CO2), 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	: None
	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	: Contain and collect spillage with non-combustible absorbent materia (e.g. sand, earth, diatomaceus earth, vermiculite) and place in container for disposal according to local / national regulations (see





#### A1423 BROWN Version Number 1.0 Page 3 of 8 Revision Date 10/11/2002 Print Date 11/6/2011 section 13). 7. HANDLING AND STORAGE Handling Flammable liquid. Keep away from flames, hot surfaces, and sources : of ignition. Use of non-sparking or explosion-proof equipment may be necessary. Never use compressed air for transferring product. Ensure all equipment is electrically grounded before beginning transfer operations. Take measures to prevent the build up of static electricity. Use only in area provided with appropriate exhaust ventilation. Store below 120 °F (49 °C) Keep containers tightly closed in a cool, Storage : well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammable Liquid. Check local fire regulations for sprinkler or explosion proof storage location requirements. 8. EXPOSURE CONTROLS / PERSONAL PROTECTION Respiratory protection Airborne contaminant levels should be maintained below the : occupational exposure guidelines. When respiratory protection is required, use an approved air-purifying or positive pressure supplied-air respirator, depending upon potential airborne contaminant concentrations. Employees using respirators must be properly trained. Employers must follow applicable regulations such as OSHA 29 CFR 1910.134. **Eye/Face Protection** Wear goggles or face shield during operations that present a splash : potential. Hand protection : Protective gloves. Skin and body protection Choose body protection according to the amount and concentration of : the dangerous substance at the work place. Additional Protective Safety shoes. · Measures General Hygiene Handle in accordance with good industrial hygiene and safety practice. • Considerations Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. : Provide general and/or local exhaust ventilation to control airborne Engineering measures contaminant levels below the exposure guidelines. Exposure limit(s)



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Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
Carbon black	3.5 mg/m3	PEL:	Total dust. as carbon black	OSHA Z1
Lead chromate	1 mg/m3	PEL:	as Cr	OSHA Z1
Lead chromate	0.05 mg/m3	Time Weighted Average (TWA):	Dust. as Pb	OSHA
	0.03 mg/m3	OSHA Action level:	Dust. as Pb	OSHA
	0.012 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
Methyl ethyl ketone	200 ppm	Time Weighted Average (TWA):	Vapor.	ACGIH
	300 ppm	Short Term Exposure Limit (STEL):	Vapor.	ACGIH
Tetrahydrofuran	200 ppm	Time Weighted Average (TWA):		ACGIH
	250 ppm	Short Term Exposure Limit (STEL):		ACGIH
Tetrahydrofuran	200 ppm 590 mg/m3	PEL:		OSHA Z1

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor

Boiling Point:

: Liquid : BROWN : Solvent Melting point/range : Not applicable. : No data available. Water solubility : Negligible

: Liquid

Specific Gravity Bulk density Vapor pressure Vapor density pН

Evaporation rate

: Faster than Butyl Acetate Not determined : : Not applicable. : Not determined : Heavier than air.

: Not determined

# **10. STABILITY AND REACTIVITY**

Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame. Heat, flames and sparks.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), other hazardous materials, and smoke are all possible.



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### 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
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
7758-97-6	Lead chromate	Systemic effects	central nervous system, reproductive system.
78-93-3	Methyl ethyl ketone	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	central nervous system.
109-99-9	Tetrahydrofuran	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	central nervous system, Liver.

#### 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
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit
7758-97-6	Lead chromate	Oral LD50	> 12 gm/kg	mouse
78-93-3	Methyl ethyl ketone	LC50	32 gm/m3	mouse
		Oral LD50	4,050 mg/kg	mouse
		Dermal LD50	6,480 mg/kg	rabbit
109-99-9	Tetrahydrofuran	LC50	21000 ppm	rat
		Oral LD50	1,650 mg/kg	rat

Carcinogenicity:

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	no	2B	no
7758-97-6	Lead chromate	no	no	1

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

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:



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Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

#### 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".

Persistence and degradability	: No data available.			
Environmental Toxicity	: Adverse ecological impact is not known or expected under normal use.			
Bioaccumulation Potential	: No data available.			
Additional advice	: No data available.			
	13. DISPOSAL CONSIDERATIONS			
Product	: Dispose of properly. Do not dump into sewers, on the ground, or into any body of water. 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 materi 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			



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US Regulations:					
OSHA Status	: Classifi	ed as hazardous l	based on components.		
TSCA Status	TSCA Status : All components of this product are listed on the TSCA inventory or are exempt.				
US. EPA CERCLA Hazar	dous Substances (4	40 CFR 302)			
Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product	
Tetrahydrofuran	109-99-9	28.9774	1,000 lbs	3,451 LB	

California Proposition 65

: WARNING! This product contains a chemical known in the State of California to cause cancer., WARNING! This product contains a chemical known in 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	7758-97-6	00.47
LEAD COMPOUNDS, INORGANIC		
LEAD COMPOUNDS, INORGANIC	7446-14-2	00.02
METHYL ETHYL KETONE	78-93-3	28.97

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
7758-97-6	
78-93-3	
109-99-9	

DSL

: Listed.

National Inventories:

Australia AICS	:	Listed.

China IECS : Listed.



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Version Number 1.0 Page 8 of 8 Revision Date 10/11/2002 Print Date 11/6/2011 Europe EINECS : Listed. 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.