

MATERIAL SAFETY DATA SHEET

DX2180C BROWN #2-HARD

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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	:	DX2180C BROWN #2-HARD
Product code	:	FO00004324
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

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



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Medical Conditions Aggravated by Exposure:	: None known.
	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 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	: No data available.
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	 No data available. No data available. Not applicable. 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) unde 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 no 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 binde 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
Handling	: Heat only in areas with appropriate exhaust ventilation. Processing



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Storage :	fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.
8. EXPOSUE	RE CONTROLS / PERSONAL PROTECTION
Respiratory protection :	Under normal handling conditions a respirator is not 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)

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	0.012 mg/m3	Time Weighted Average (TWA):	Dust. as Cr	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor

: Liquid : Viscous, Liquid : BROWN : Very faint

Evaporation rate:Not establishedSpecific Gravity:Not determinedBulk density:Not applicable.Vapor pressure:Not determined



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Melting point/range Boiling Point: Water solubility	Not applicableNot applicableImmiscible	Vapor density pH	Not determinedNot applicable.
	10. STABILITY AN	D REACTIVITY	
Stability	: Stable.		
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from o decomposition, do		flame. To avoid thermal
Incompatible Materials	-	strong acids and oxidizin olymers and acetal copol	
Hazardous decomposition products	(NOx), hydrogen of smoke are all poss degradation. As a after one hour at 1		rdous materials, and

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.

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

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



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7758-97-6 Lead c	hromate	no	no		1
IARC Carcinogen Classificatio 1 - The component is carcinoge 2A - The component is probabl 2B - The component is possibly	enic to humans. ly carcinogenic to human				
NTP Carcinogen Classification					
 The component is known to The component is reasonable 	e e				
this evaluation, along with the overall evaluation is that "Ca has not been listed as a carcin and Health Administration ((rbon Black is possibly ogen by the National T	carcinogenic to h oxicology Program	umans (Gro m (NTP) or	oup 2B). (the Occu	Carbon I pational
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S	black recommends tha han 0.1% be considere <u>formation:</u> Systemic effects include	t only carbon blad d suspect carcino e neurotoxic, terat	ck with PA gens. ogenic, feto	H (polynu otoxic and	clear aro reprodu
criteria document on carbon hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S with abdominal pain, anemia	black recommends tha han 0.1% be considere <u>formation:</u> Systemic effects include	t only carbon blac d suspect carcinos e neurotoxic, terat d grip strength wi	ck with PAI gens. ogenic, feto ith characte	H (polynu otoxic and	clear aro reprodu
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S	black recommends tha han 0.1% be considere <u>formation:</u> Systemic effects include , pallor, decreased han	t only carbon blac d suspect carcino e neurotoxic, terat d grip strength wi	ck with PAI gens. ogenic, feto ith characte	H (polynu otoxic and	clear aro reprodu
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S with abdominal pain, anemia	black recommends tha han 0.1% be considered formation: Systemic effects include , pallor, decreased han 12. ECOLOGICAL : Not readily biodes	t only carbon blac d suspect carcino e neurotoxic, terat d grip strength wi	ck with PA gens. ogenic, feto ith characte	H (polynu otoxic and eristic ''wr	clear arc reprodu rist drop
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S with abdominal pain, anemia Persistence and degradability	black recommends tha han 0.1% be considered formation: Systemic effects include , pallor, decreased han 12. ECOLOGICAL : Not readily biodeg : Environmental to:	it only carbon blac d suspect carcinos e neurotoxic, terat d grip strength with <u>INFORMATION</u> gradable. xicity has not been	ck with PA gens. ogenic, feto ith characte	H (polynu otoxic and eristic ''wr	clear arc reprodu rist drop
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S with abdominal pain, anemia Persistence and degradability Environmental Toxicity Bioaccumulation Potential	black recommends tha han 0.1% be considered formation: Systemic effects include , pallor, decreased han 12. ECOLOGICAL : Not readily biodes : Environmental to whole.	it only carbon blac ed suspect carcinos e neurotoxic, terat d grip strength with <u>INFORMATION</u> gradable. kicity has not been	ck with PA gens. ogenic, feto ith characte	H (polynu otoxic and eristic ''wr	clear arc reprodu rist drop
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S with abdominal pain, anemia Persistence and degradability Environmental Toxicity	black recommends tha han 0.1% be considered formation: Systemic effects include , pallor, decreased han <u>12. ECOLOGICAL</u> : Not readily biodes : Environmental to whole. : No data available.	t only carbon blac d suspect carcinos e neurotoxic, terat d grip strength wi <u>INFORMATION</u> gradable. kicity has not been	ck with PA gens. ogenic, feto ith characte	H (polynu otoxic and eristic ''wr	clear arc reprodu rist drop
hydrocarbon) levels greater t <u>Additional Health Hazard In</u> Lead chromate 7758-97-6 S with abdominal pain, anemia Persistence and degradability Environmental Toxicity Bioaccumulation Potential	black recommends tha han 0.1% be considered formation: Systemic effects include , pallor, decreased han 12. ECOLOGICAL : Not readily biodes : Environmental to whole. : No data available. : No data available. 13. DISPOSAL CO : Where possible, re generator of waste classification, tran	t only carbon blac d suspect carcinos e neurotoxic, terat d grip strength wi <u>INFORMATION</u> gradable. kicity has not been	ck with PAI gens. ogenic, feto ith characto established d to disposa esponsibility posal in acco	H (polynu ptoxic and eristic ''wr for this mi for this mi l or inciner y for prope ordance wi	reprodu rist drop xture as a ration. T r waste



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U.S. D.O.T. Classification ground)		:	Not regul	ated for transpo	rtation.		
ICAO/IATA		:	Not regul	ated for transpo	rtation.		
IMO / IMDO	ì	:	Not regul	ated for transpo	rtation.		
		15.	REGUL	ATORY INFO	RMATION	[
US Regulation	ons:						
OSH	A Status	:	Classified	l as hazardous b	ased on con	nponents.	
TSCA	A Status		All compexempt.	onents of this pr	oduct are lis	sted on the	TSCA inventory or are
US. EPA CE	RCLA Hazard	ous Subst	tances (40	CFR 302)			
Chem	ical Name	CAS-No	0.	% in Product	RQ for con	nponent	RQ for Mixture/Product
1	i	•					
	sulfate	7446-14		0.02	10lbs		40,000 LB
Calife 65	sulfate ornia Propositio III Section 313	on :	WARNIN California chemical other repr	NG! This produ a to cause cance	ct contains a r., WARNIN	NG! This	
Calife 65	ornia Propositi	on : 3 Toxic Cf	WARNIN California chemical other repr	NG! This produ a to cause cance known in the St	ct contains a r., WARNIN ate of Calife	NG! This j ornia to ca	40,000 LB known in the State of product contains a use birth defects or
Calife 65	ornia Propositio III Section 313 Chemical Na CHROMIUN	on : 3 Toxic Cł ame M VI COI	WARNIN California chemical other repr hemicals:	NG! This produ a to cause cance known in the St roductive harm.	ct contains a r., WARNIN rate of Califo	NG! This	40,000 LB known in the State of product contains a use birth defects or
Calife 65	ornia Propositio III Section 313 Chemical Na	on : 3 Toxic Ch ame M VI COM 1POUNDS	WARNIN California chemical other repr hemicals: MPOUNE S, INORC	NG! This produ a to cause cance known in the St roductive harm. CAS DS 7758- GANIC	ct contains a r., WARNIN ate of Califo -No. 97-6	NG! This j ornia to ca	40,000 LB known in the State of product contains a use birth defects or
Calife 65	ornia Propositio III Section 313 Chemical Na CHROMIUN LEAD COM LEAD COM	on : 3 Toxic Ch ame M VI COM 1POUNDS	WARNIN California chemical other repr hemicals: MPOUNE S, INORC	NG! This produ a to cause cance known in the St roductive harm. CAS DS 7758- GANIC	ct contains a r., WARNIN ate of Califo -No. 97-6	NG! This pornia to car Weigh 0.45	40,000 LB known in the State of product contains a use birth defects or
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1309-64-4		
1305-78-8		
1333-86-4		
7758-97-6		
7446-14-2		
75-01-4		
DSL	:	Listed.
National Inventories:		
Australia AICS	:	Listed.
China IECS	:	Listed.
Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Listed.
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.