PolvOne

MATERIAL SAFETY DATA SHEET UPS BROWN M2949

Version Number 1.0 Revision Date 08/28/2007

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	UPS BROWN M2949
Product code	:	CC10103575
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Toluene	108-88-3	0.1 - 1
Carbon black	1333-86-4	1 - 5
Titanium dioxide	13463-67-7	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, 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.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to
Skin	: Resin particles, ne other meet materials, are meetameanly innating to eyes.: 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 o 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, also under the eyelids, 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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	 Not applicable Not applicable Not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	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	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

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Storage

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: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection	: No personal respiratory protective equipment normally	y 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 Wash hands before breaks and at the end of workday.	safety practice.
Engineering measures	: Heat only in areas with appropriate exhaust ventilation appropriate exhaust ventilation at machinery.	1. Provide
Exposure $limit(s)$		

Exposure limit(s)

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Components	Value	Exposure tim		Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted A (TWA):	verage		ACGIH
	3.5 mg/m3	PEL:			OSHA Z1
	3.5 mg/m3	Time Weighted A (TWA):	verage		MX OEL
	7 mg/m3	Short Term Exposu (STEL):	re Limit		MX OEL
Titanium dioxide	10 mg/m3	Time Weighted A (TWA):	verage		ACGIH
	15 mg/m3	PEL:		Total dust.	OSHA Z1
	10 mg/m3	Time Weighted A (TWA):	verage	as Ti	MX OEL
	20 mg/m3	Short Term Exposu (STEL):	re Limit	as Ti	MX OEL
Toluene	20 ppm	Time Weighted A (TWA):	-		ACGIH
	200 ppm	Time Weighted A (TWA):	verage		OSHA Z2
	300 ppm	Ceiling Limit V			OSHA Z2
	500 ppm	Maximum concent			OSHA Z2
	50 ppm 188 mg/m3	Time Weighted A (TWA):	verage		MX OEL
	9. PHYSIC	CAL AND CHEMIC	CAL PRC	PERTIES	
Form Appearance Color Odour Melting point/range Boiling Point: Water solubility	: Not o	ts WN faint determined applicable	Specifi Bulk d Vapou	ic Gravity : N ensity : N r pressure : N r density : N	ot applicable ot determined ot established ot applicable ot applicable ot applicable
	10. 8	STABILITY AND R	EACTIV	ITY	
Stability	: S	table.			
Hazardous Polymeriza	tion : W	Vill not occur.			
Conditions to avoid		eep away from oxidi ecomposition, do not		ts and open flame. To	o avoid thermal
Incompatible Materials	s : Ir	: Incompatible with strong acids and oxidizing agents.			

Hazardous decomposition
products:Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen
(NOx), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

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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
108-88-3	Toluene	Systemic effects	central nervous system (CNS),
			Liver, Kidney, urinary system.
		Irritant	Skin, Eyes.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	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
108-88-3	Toluene	LC50	49 gm/m3	rat
		LC50		mouse
		LC50		rat
		Oral	636 mg/kg2,600	ratrat
		LD50Oral	- 7,500 mg/kg	rabbit
		LD50	14100 ul/kg	rabbit
		Dermal LD50	12,124 mg/kg	
		Dermal LD50		
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no

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). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. 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.

12. ECOLOGICAL INFORMATION

Environmental Toxicity	:	Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	:	No data available
	1.	3. DISPOSAL CONSIDERATIONS
Product	:	Like most thermoplastic plastics the product can be recycled. 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.
	1	4. TRANSPORT INFORMATION
U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA (air)	:	Refer to specific regulation.
IMO / IMDG (maritime)	:	Refer to specific regulation.
	15	. REGULATORY INFORMATION
US Regulations		
US Regulations:	_	

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OSHA Status :	Classified as haz	zardous based on co	omponents.	
TSCA Status :	All components Inventory.	of this product are	listed on or exemp	pt from the TSCA
US. EPA CERCLA Hazardous Sub	ostances (40 CFR 3	302)		
Not applicable				
California Proposition : 65		nis product contains use birth defects or		
SARA Title III Section 302 Extrem	nely Hazardous Su	bstance		
Unless specific chemicals are ident	tified under this sec	ction. this product i	s Not Applicable	under this regulatio
-		-		-
SARA Title III Section 313 Toxic Unless specific chemicals are ident Canadian Regulations:		ction, this product i	s Not Applicable	under this regulatio
National Pollutant Release	Inventory (NPRI)	CAS-No.	Waight 0/	NPRI ID#
2-Propenoic acid, 2-methyl-, me	thyl ester	80-62-6	Weight % 0.10 - 1.00	161
Toluene	ling rester	108-88-3	0.10 - 1.00	215
WHMIS Classification :	D2A			
WHMIS Ingredient Disclos CAS-No. 1333-86-4 DSL : National Inventories:		not been determine ulations.	d. Quantity use i	n Canada may be
CAS-No. 1333-86-4 DSL :	DSL status has restricted by reg		d. Quantity use i	n Canada may be

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Philippines PICCS	: Not determined
Korea KECI	: Not determined
Japan ENCS	: Not determined
Europe EINECS	: Not determined
Europe EINECS	: 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.