PolvOne

MATERIAL SAFETY DATA SHEET DURABLE YELLOW-HM 2

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name :	DURABLE YELLOW-HM 2
Product code :	CC10156440
Chemical Name :	Mixture
CAS-No. :	Mixture
Product Use :	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Silica, amorphous	7631-86-9	1 - 5
Barium sulfate	7727-43-7	10 - 30
Cadmium sulfoselenide orange (Orange 20)	12656-57-4	10 - 30
Titanium dioxide	13463-67-7	10 - 30

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	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion	: May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.

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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 c doubt seek medical advice.					
Ingestion	: Do not induce vomiting without medical advice. When symptopersist or in all cases of doubt seek medical advice.	oms				
Eyes	: Rinse immediately with plenty of water, also under the eyelids least 15 minutes. If eye irritation persists, seek medical attention					
Skin	: Wash off with soap and plenty of water. If skin irritation persi seek medical attention.	sts				
	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 popressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitro (NOx), other hazardous materials, and smoke are all possible. 	e				
	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 show be allowed to enter drains, water courses or the soil.	uld not				
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all mater plastic, cardboard or metal containers for disposal. Refer to Se 13 of this MSDS for proper disposal methods.					

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		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.
8. EX	POSU	RE CONTROLS/PERSONAL PROTECTION
Respiratory protection	:	No personal respiratory protective equipment normally 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/m3	Time Weighted Average (TWA):		ACGIH
	5 mg/m3	Recommended exposure limit (REL):	Respirable.	NIOSH
	10 mg/m3	Recommended exposure limit (REL):	Total	NIOSH
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
Cadmium sulfoselenide orange (Orange 20)	0.01 mg/m3	Time Weighted Average (TWA):	as Cd	ACGIH
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
	0.005 mg/m3	Time Weighted Average (TWA):		OSHA
	0.0025 mg/m3	OSHA Action level:		OSHA
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable dust. as Cd	MX OEL
	0.01 mg/m3	Time Weighted Average (TWA):	Total dust. as Cd	MX OEL
	0.2 mg/m3	Time Weighted Average (TWA):	as Se	ACGIH
	0.2 mg/m3	PEL:	as Se	OSHA Z1
	0.2 mg/m3	Time Weighted Average (TWA):	as Se	OSHA Z1A
	0.2 mg/m3	Time Weighted Average (TWA):	as Se	MX OEL
Silica, amorphous	6 mg/m3	Recommended exposure limit (REL):		NIOSH
	0.8 mg/m3	Time Weighted Average (TWA):		Z3
	10 mg/m3	Time Weighted Average (TWA):	Inhalable particulate.	MX OEL
	3 mg/m3	Time Weighted Average (TWA):	Respirable dust.	MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL



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	20 mg/m3	Short Term Exposure L (STEL):	imit as '	Гі	MX OEL
	9. PHYSIC	CAL AND CHEMICAL	PROPERTIES		
Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility		ts S LOW E faint V determined V pplicable p	Evaporation rate pecific Gravity Bulk density Vapour pressure Vapour density H	: Not : Not : not : not	applicable determined established applicable applicable applicable
	10. 8	STABILITY AND REA	CTIVITY		
Stability	: S	table			
Hazardous Polymerization	n : V	Vill not occur.			
Conditions to avoid		Leep away from oxidizing ecomposition, do not ove		ame. To a	avoid thermal
Incompatible Materials	: Iı	ncompatible with strong a	acids and oxidizing	agents.	
Hazardous decomposition products		Carbon dioxide (CO2), can NOx), other hazardous m			

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
7631-86-9	Silica, amorphous	Irritant	Eyes, Respiratory system.
7727-43-7	Barium sulfate	Irritant	Respiratory system.
		Systemic effects	Eyes, Respiratory system.
12656-57-4	Cadmium sulfoselenide orange (Orange 20)	Irritant	Eyes, Skin.
		Systemic effects	Liver, Kidney, central nervous system (CNS).
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

Carcinogenicity

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

CAS-No. Chemical Name	OSHA	IARC	NTP
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12656-57-4			sulfoselenide ange 20)	yes	1	no
13463-67-7	Titaniu			no	2B	no
2B - The compone NTP Carcinogen (1 - The componen	t is carcinoge ent is probable nt is possibly Classification t is known to	nic 1 y car y car s: be a	to humans. rcinogenic to human cinogenic to humans human carcinogen. ticipated to be a hun	5.		
		12	2. ECOLOGICAL	INFORMATION	1	
Persistence and de	gradability	:	Not readily biodeg	radable.		
Environmental To	xicity	:	Chemicals are not polymer matrix.	readily available	as they are bound	within the
Bioaccumulation Potential : Chemicals are not readily available as they are bound within the polymer matrix.					within the	
Additional advice		:	no data available			
		1	3. DISPOSAL CON	SIDERATIONS	5	
Product		:	Like most thermop possible recycling generator of waste classification, trans applicable federal,	is preferred to dis material has the r sportation and dis	posal or incinerati responsibility for p posal in accordance	on. The roper waste we with
Contaminated pac	kaging	:	Recycling is prefer material has the res transportation and state/provincial and	sponsibility for pr disposal in accord	oper waste classifi lance with applica	ication,
		1	4. TRANSPORT I	NFORMATION		
U.S. DOT Classifi	cation	:	Not regulated for the	ransportation.		
ICAO/IATA		:	Refer to specific re	gulation.		
IMO/IMDG (mari	time)	:	Refer to specific re	gulation.		
		15	S. REGULATORY	INFORMATION	N	
US Regulations:						

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OSHA Status :	Classified as ha	zardous ba	sed on cor	mponen	ts.	
TSCA Status :	All component TSCA Inventor	-	oduct are l	listed on	or exem	pt from the
US. EPA CERCLA Hazardous Su	bstances (40 CFR	302)				
not applicable						
California Proposition : 65	WARNING! T California to ca					on to the State of a contains a
	chemical knows other reproduct	n to the Sta				
SARA Title III Section 302 Extrer	nely Hazardous Si	ubstance				
Unless specific chemicals are iden	-					
SARA Title III Section 313 Toxic Unless specific chemicals are iden		ection, this				
Chemical Name CADMIUM COMPOUNDSSEI		NINDE	CAS-No. 12656-57-		Weight 10.00 -	percent 20.00
CADMIUM COMPOUNDSSE		JUNDS	12030-37-	4	10.00 -	30.00
Canadian Regulations:						
National Pollutant Release	Inventory (NPRI)					
Chemical Name		CAS-No).	Weight percent		NPRI ID#
Cadmium sulfoselenide orange	(Orange 20)	12656-5	7-4	10.00 - 10.00 -		
WHMIS Classification : WHMIS Ingredient Disclos CAS-No. 12656-57-4 7631-86-9	D2A sure List					
DSL :	All component Substances List				anadian	Domestic

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National Inventories:

Australia AICS	:	Listed
China IECS	:	Listed
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.