MATERIAL SAFETY DATA SHEET MARIGOLD 3

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
MARIGOLD 3
CC10097384
Mixture
Mixture
Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	5 - 10

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	eyes. : Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.



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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, also under the eyelids, for 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	:	Not applicable				
Flammable Limits						
Upper explosion limit		Not applicable				
Lower explosion limit	:	Not applicable				
Autoignition temperature	:	Not applicable				
	·	11				
Suitable extinguishing media	:	Carbon dioxide blanket, water spray, dry powder, foamnone.				
Special Fire Fighting	:	Fullface self-contained breathing apparatus (SCBA) used in positive				
Procedures		pressure mode should be worn to prevent inhalation of airborne				
		contaminants.				
Unusual Fire/Explosion	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen				
Hazards		(NOx), other hazardous materials, and smoke are all possible.				
	6. A	CCIDENTAL 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 13 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.				
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption				

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8. F	EXPOSURE	CONTROLS / PERSONA	AL PROTECTION			
Respiratory protection	: N	lo personal respiratory prot	ective equipment norr	nally required.		
Eye/Face Protection	: S	afety glasses with side-shie	elds.			
Hand protection	: P	rotective gloves.				
Skin and body protection	: L	ong sleeved clothing.				
Additional Protective Measures	: S	: Safety shoes.				
General Hygiene Considerations		landle in accordance with g Vash hands before breaks a				
Engineering measures		leat only in areas with appr ppropriate exhaust ventilati		ation. Provide		
Exposure limit(s)						
Components	Value	Exposure time	Exposure typ	e List:		
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH		
	15 mg/m3	PEL:	Total dust.	OSHA Z1		
	20 mg/m3	Short Term Exposure Lin (STEL):	nit as Ti	MX OEL		
	9. PHYSI	CAL AND CHEMICAL P	PROPERTIES			
-	a 11			XX		
Form	: Solic : Pelle		aporation rate : ecific Gravity: :	Not applicable Not determined		
Appearance Color			lk density :	Not established		
Odor	: Very		por pressure :	Not applicable		
Melting point/range			pour density :	Not applicable		
Boiling Point:		applicable pH		Not applicable		
Water solubility	: Insol					
	10. 5	STABILITY AND REAC	ΤΙVITY			
Stability	: S	table.				
Stability Hazardous Polymerization		table. Vill not occur.				



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		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	5. REGULATORY INFORMATION
US Regulations:		
OSHA Status	:	Classified as hazardous based on components.
TSCA Status	:	All components of this product are listed on or exempt from the TSCA Inventory.
US. EPA CERCLA Hazardou	s Sub	stances (40 CFR 302)
Not applicable		
California Proposition 65	:	Not applicable
SARA Title III Section 302 E	xtrem	ely Hazardous Substance
Unless specific chemicals are	identi	fied under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 T	oxic C	Chemicals:
	identi	fied under this section, this product is Not Applicable under this regulation
Chemical Name VANADIUM COMPOUNI	DS	CAS-No. Weight % 14059-33-7 10.00 - 30.00
Canadian Regulations:		

<u>PolyOne</u>

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National Pollutant Releas Chemical Name Bismuth vanadium oxide (Biv		•	CAS-No. 14059-33-7	Weight %	NPRI ID# 226]
WHMIS Classification	:	<u>, </u>	1100 55 7	10.00 20.00	220	J
DSL	:		s of this product a (DSL) or are exe	are on the Canadian mpt.	Domestic	
National Inventories:						
Australia AICS	:	Listed				
China IECS	:	Listed				
Europe EINECS	:	Listed				
Japan ENCS	:	Not determined				
Korea KECI	:	Listed				
Philippines PICCS	:	Listed				
		16. OTHER I	NFORMATION			

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.