

MATERIAL SAFETY DATA SHEET

VIVE RED

Version Number 1.0 Revision Date 11/26/2001 Page 1 of 5 Print Date 11/2/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	VIVE RED
Product code	:	CC10006087
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure. See Sections 3 and 11 for special precautions.

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



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	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, 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 seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Not applicable Not applicable Not relevant Carbon dioxide blanket, water spray, dry powder, foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. 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	: 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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	a	nd contamination. Keep	in a dry, cool place	2.	
8. E	XPOSURE	CONTROLS / PERSO	NAL PROTECTI	ON	
Respiratory protection	: N	lo personal respiratory pr	otective equipment	t normally	required.
Eye/Face Protection	: Safety glasses with side-shields.				
Hand protection	: Protective gloves.				
Skin and body protection	: L	ong sleeved clothing.			
Additional Protective Measures	: S	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.			
Components Titanium dioxide	Value 10 mg/m3	Exposure time Time Weighted Avera	Exposur age Total		List: ACGIH
	15 mg/m3	(TWA): PEL:	Total	dust.	OSHA Z
		CAL AND CHEMICAL	DDADEDTIES		
	<i>7.1115</i>				
	: Solic		Evaporation rate		t applicable.
Form		1 2		t determined.	
Appearance	: Pelle				
Appearance Color	: RED) E	Bulk density		t established
Appearance Color Odor	: RED : Very) E / faint V	Bulk density Vapor pressure	: Not	t applicable
Appearance Color Odor Melting point/range	: RED : Very : Not	p E 7 faint V determined. V	Bulk density Vapor pressure Vapor density	: Not : Not	t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point:	: RED : Very : Not of : Not of	E 7 faint V determined. V applicable p	Bulk density Vapor pressure	: Not : Not	t applicable
Appearance Color Odor Melting point/range	: RED : Very : Not	E 7 faint V determined. V applicable p	Bulk density Vapor pressure Vapor density	: Not : Not	t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point:	: RED : Very : Not : Not : Insol	E 7 faint V determined. V applicable p	Bulk density Vapor pressure Vapor density H	: Not : Not	t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point:	: RED : Very : Not (: Not ; : Insol) E 7 faint V determined. V applicable p luble	Bulk density Vapor pressure Vapor density H	: Not : Not	t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point: Water solubility	: RED : Very : Not (: Not : : Insol 10. \$: S) E 7 faint N determined. N applicable p luble STABILITY AND REA	Bulk density Vapor pressure Vapor density H	: Not : Not	t applicable t applicable
Appearance Color Odor Melting point/range Boiling Point: Water solubility Stability	: RED : Very : Not a : Not a : Insol S n : V : K	o E 7 faint V determined. V applicable p luble STABILITY AND REA	Bulk density Vapor pressure Vapor density H CTIVITY	: Not : Not	applicable applicable applicable



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Hazardous decomposition products

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

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		
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.		
	12. ECOLOGI	CAL INFORMATION	1		
Persistence and degrad	ability : Not readily b	viodegradable.			
Environmental Toxicit		: Chemicals are not readily available as they are bound within the matrix of the polymer.			
Bioaccumulation Poter		: Chemicals are not readily available as they are bound within the matrix of the polymer.			
Additional advice	: No data avai	lable.			
	13. DISPOSAL	CONSIDERATIONS			
Product Contaminated packagin	recycling is p waste materi transportatio state/provinc ng : Recycling is has the respo and disposal	 Like most thermoplastics 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. 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. 			
	14. TRANSPO	ORT INFORMATION			
U.S. D.O.T. / CA T.D. Classification (Non-bu ground)	G. : Not regulated	d for transportation.			
ICAO/IATA	: Not regulated	d for transportation.			
IMO / IMDG	: Not regulated	d for transportation.			
	15 RECHLAT	ORY INFORMATION	J		

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US Regulations:		
OSHA Status	:	Classified as hazardous based on components.
TSCA Status	:	All components of this product are listed on the TSCA inventory or are exempt.
California Proposition 65	:	This product does not contain a substance listed by California Prop 65.
Canadian Regulations:		
WHMIS Classification	:	D2B
DSL	:	Listed.
National Inventories:		
Australia AICS	:	Listed.
China IECS	:	Listed.
Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Listed.
Philippines PICCS	:	Listed.

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.