MATERIAL SAFETY DATA SHEET QUAD RED CO-20189

Version Number 1.0 Revision Date 11/04/2004

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone : Emergency telephone : number	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	QUAD RED CO-20189
Product code	:	CC10060983
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
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 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	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: 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 or 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 Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Not applicable Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone. 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.
Storage	: Keep containers dry and tightly closed to avoid moisture absorption

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8. 1	XPOSURE	CONTROLS / PERSO	NAL I	PROTECTION			
Respiratory protection	: N	lo personal respiratory p	rotectiv	e equipment norm	ally r	equired.	
Eye/Face Protection	: S	afety glasses with side-s	hields.				
Hand protection	: P	rotective gloves.					
Skin and body protection	: L	ong sleeved clothing.					
Additional Protective Measures	: S	afety shoes.					
General Hygiene Considerations		andle in accordance with ash hands before break				afety practice	
Engineering measures		leat only in areas with ap			tion.	Provide	
Exposure limit(s)							
Components	Value	Exposure time		Exposure type		List:	
Titanium dioxide	10 mg/m3	Time Weighted Aver (TWA):	age			ACGIH	
	15 mg/m3	PEL:		Total dust.		OSHA Z1	
	9. PHYSIC	CAL AND CHEMICAI	L PRO	PERTIES			
Form	: Solid	1	Evapora	ation rate :	Not	applicable	
Appearance	: Pelle			c Gravity: :		determined	
Color	: RED		Bulk de		Not established		
Odor			Vapor pressure : Not applicable				
Melting point/range			Vapour density : Not applicable				
Boiling Point:			pН	:	Not	applicable	
Water solubility	: Insol	uble					
	10. 8	STABILITY AND REA	CTIV	ITY			
Stability	: S	table.					
Hazardous Polymerization	n : W	Vill not occur.					
C 11.1		eep away from oxidizin ecomposition, do not ov		s and open flame.	To av	void thermal	
Conditions to avoid	u	-					



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Hazardous decomposition : C 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. 13463-67-7	Chemical Name Titanium dioxide	Effect Systemic effects	Target OrganRespiratory system.					
13403-07-7	I itanium dioxide	Systemic effects	Respiratory system.					
	12. ECOLOGI	CAL INFORMATION	١					
Persistence and degrada	bility : Not readily b	viodegradable.						
Environmental Toxicity		: Chemicals are not readily available as they are bound within the polymer matrix.						
Bioaccumulation Poten		: Chemicals are not readily available as they are bound within the polymer matrix.						
Additional advice	: No data avai	lable						
	13. DISPOSAL	CONSIDERATIONS	9					
Product Contaminated packagin	g : Recycling is has the respo and disposal	 Like most thermoplastic plastics the product can be recycled. W possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper wast classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations. Recycling is preferred when possible. The generator of waste ma has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal. 						
	14. TRANSPO	PRT INFORMATION						
U.S. DOT Classification	n : Not regulated	l for transportation.						
ICAO/IATA (air)	: Refer to spec	ific regulation.						
IMO / IMDG (maritime	e) : Refer to spec	ific regulation.						
	15. REGULAT	ORY INFORMATION	N					

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US Regulations:								
OSHA Status	:	Classified as hazardous	s ba	ased on compo	nents.			
TSCA Status	:	All components of this Inventory.	pr	oduct are listed	l on or	exemp	ot from t	he TSCA
US. EPA CERCLA Hazardous	Subs	stances (40 CFR 302)						
Not applicable								
California Proposition 65 SARA Title III Section 302 Extr Not applicable SARA Title III Section 313 Tox	reme		cer		emica	l know	n to the	State of
SARA THE III SECUOI 515 TOX		inemicais:						
Chemical Name C.I. SOLVENT YELLC				CAS-No. 842-07-9		Veight .08	%	
Canadian Regulations: National Pollutant Releas Chemical Name				AS-No.	Wei	ght %	NPRI	ID#
1-phenolazo-2-naphthol (C	.I. S	Solvent yellow 14)	84	2-07-9	5.08	5	47	
WHMIS Classification	:	Not controlled. All components of this Substances List (DSL)			he Car	nadian l	Domest	ic
National Inventories:								
Australia AICS	:	Listed						
China IECS	:	Listed						
Europe EINECS	:	Listed						
Japan ENCS	:	Listed						
Korea KECI	:	Listed						
Philippines PICCS	:	Listed						

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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 when used in combination with any other materials and/or in any particular process or processing conditions.