#### MATERIAL SAFETY DATA SHEET 2140R3 BLACK UV

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# 1. PRODUCT AND COMPANY IDENTIFICATION POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012 Telephone : Product Stewardship (770) 271-5902 Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name	: 2140R3 BLACK UV
Product code	: CC10045650
Chemical Name	: Mixture
CAS-No.	: Mixture
Product Use	: Industrial Applications

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
1,6-Hexanediamine,	193098-40-7	1 - 5
N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymers with		
morpholine-2,4,6-trichloro-1,3,5-triazine reaction pr		
Carbon black	1333-86-4	30 - 60

#### **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	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>
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 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 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	<ul><li>Not applicable</li><li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li></ul>		
Suitable extinguishing media	: Carbon dioxide blanket, water spray, dry powder, foannione.		
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive 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.		
1	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		

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Handling	• т	ake measures to prevent the b	uild up of electrostatic ch	arge Heat
Transming		nly in areas with appropriate e		unge. meut
Storage	: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.			
8. F	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ive equipment normally re	equired.
Eye/Face Protection	: S	afety glasses with side-shields		
Hand protection	: P:	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: S	afety shoes.		
General Hygiene Considerations		landle in accordance with good Vash hands before breaks and a		afety praction
Engineering measures		leat only in areas with appropr ppropriate exhaust ventilation		Provide
Exposure limit(s)				
-	Value	Exposure time	Exposure type	List:
Exposure limit(s) Components Carbon black	Value 3.5 mg/m3	Exposure time Time Weighted Average (TWA):	Exposure type Total dust. as carbon black	List: ACGIH
Components		*	Total dust. as carbon	ACGIH
Components	3.5 mg/m3 3.5 mg/m3	Time Weighted Average (TWA):	Total dust. as carbon black Total dust. as carbon black	ACGIH
Components Carbon black	3.5 mg/m3 3.5 mg/m3 9. PHYSIC	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust. as carbon black Total dust. as carbon black OPERTIES	ACGIH OSHA Z
Components	3.5 mg/m3 3.5 mg/m3	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust. as carbon black Total dust. as carbon black DPERTIES ration rate : Not	ACGIH OSHA Z applicable
Components Carbon black Form Appearance Color	3.5 mg/m3 3.5 mg/m3 9. PHYSIC : Solid : Pelle : BLA	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapo ots Specif CK Bulk d	Total dust. as carbon         black         Total dust. as carbon         black         DPERTIES         ration rate       : Not         ic Gravity:       : Not         lensity       : Not	ACGIH OSHA Z applicable determined established
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Components Carbon black Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	3.5 mg/m3 3.5 mg/m3 9. PHYSIC : Solid : Pelle : BLA : Very : Not c : Not a : Insol 10. S : S	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapo the Evapo t	Total dust. as carbon black         Total dust. as carbon black         Total dust. as carbon black <b>DPERTIES</b> ration rate : Not black         ic Gravity: : Not black         pressure : Not black         ir density : Not black         ir density : Not black	ACGIH OSHA Z applicable determined established applicable applicable
Components Carbon black Form Appearance Color Odor Melting point/range Boiling Point: Water solubility Stability	3.5 mg/m3 3.5 mg/m3 9. PHYSIC : Solid : Pelle : BLA : Very : Not c : Not a : Insol 10. S : S	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PR( d Evapo ets Specif CK Bulk d faint Vapor determined Vapou applicable pH luble STABILITY AND REACTIV table.	Total dust. as carbon black         Total dust. as carbon black         Total dust. as carbon black <b>DPERTIES</b> ration rate : Not black         ic Gravity: : Not black         pressure : Not black         ir density : Not black         ir density : Not black	ACGIH OSHA Z applicable determined established applicable applicable

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Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	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**

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
193098-40-7	1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetrameth yl-4-piperidinyl)-, polymers with morpholine-2,4,6-trichloro -1,3,5-triazine reaction pr	Irritant	Eyes, Respiratory system.
		toxic	Refer to LC50 / LD50 Data on MSDS
1333-86-4	Carbon black	Systemic effects	Eyes, 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
193098-40-7	1,6-Hexanediamine,	LC50	2.8 mg/l	rat
	N,N'-bis(2,2,6,6-tetrameth			
	yl-4-piperidinyl)-,			
	polymers with			
	morpholine-2,4,6-trichloro			
	-1,3,5-triazine reaction pr			
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

#### 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**

Persistence and degradability	·	Not readily biodegradable.
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
	13	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:		

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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 Hazardous Sub	ostances (40 CFR 302)
Not applicable	
California Proposition : 65	Not applicable
SARA Title III Section 302 Extren	nely Hazardous Substance
Unless specific chemicals are ident	tified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 Toxic	Chemicals:
Unless specific chemicals are iden	tified under this section, this product is Not Applicable under this regulation
Canadian Regulations:	
National Pollutant Release I	Inventory (NPRI)
Not applicable	
WHMIS Classification :	D2A
WHMIS Ingredient Disclos	ure List
CAS-No. 1333-86-4	
DSL :	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	
Australia AICS :	Not determined
China IECS :	Not determined
Europe EINECS :	Listed
Japan ENCS :	Not determined

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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.