PolyOne

MATERIAL SAFETY DATA SHEET UV COPPER PP

Version Number 1.1 Revision Date 03/23/2014

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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		
number		or accident).		
Product name	:	UV COPPER PP		
Product code	:	CC10141900		
Chemical Name	:	Mixture		
CAS-No.	:	Mixture		
Product Use	:	Industrial Applications		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Formamide, N,N'-1,6-hexanediylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	124172-53-8	5 - 10
Titanium dioxide	13463-67-7	0.1 - 1
Rutile, antimony chromium buff	68186-90-3	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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Madical Conditions		Name Incom
Medical Conditions Aggravated by Exposure:	:	None known.
		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. FIREFIGHTING MEASURES
Flash point	:	not applicable
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media	::	not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam.
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 Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (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.
		7. HANDLING AND STORAGE



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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. EXPOSU	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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: Not applicable

: Not determined

: Not established

: not applicable

: not applicable not applicable

:

Components	Value	Exposure time	Exposure type	List:
Rutile, antimony chromium buff	0.5 mg/m3	Recommended exposure limit (REL):	as Cr	NIOSH
	0.5 mg/m3	PEL:	as Cr	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	OSHA Z1A
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	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
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Evapouration rate

Specific Gravity

Vapour pressure

Vapour density

Bulk density

pН

: solid

: pellets

: ORANGE

: very faint

: Not determined

: not applicable

Form
Appearance
Colour
Odour
Melting point/range
Boiling Point:
Water solubility

: insoluble

10. STABILITY AND REACTIVITY

Stability	: The	product is stable if stored and handled as prescribed.
Hazardous Polymerization	: Will	l not occur.
Conditions to avoid		p away from oxidizing agents and open flame. To avoid thermal omposition, do not overheat.
Incompatible Materials	: Inco	ompatible with strong acids and oxidizing agents.
Hazardous decomposition products		bon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen 0x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

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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
124172-53-8	Formamide, N,N'-1,6-	Irritant	Eyes.
	hexanediylbis[N-(2,2,6,6-		
	tetramethyl-4-piperidinyl)-		
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
68186-90-3	Rutile, antimony	Irritant	Eyes, Skin, Respiratory
	chromium buff		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
124172-53-8	Formamide, N,N'-1,6- hexanediylbis[N-(2,2,6,6- tetramethyl-4-piperidinyl)-	LC50 Oral LD50	> 5.0 mg/l > 2,000 mg/kg	rat rat

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

	12	2. 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

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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.					
	14. TRANSPORT INFORMATION					
U.S. DOT Classification	: Not regulated for transportation.					
ICAO/IATA	: Refer to specific regulation.					
IMO/IMDG (maritime)	: Refer to specific regulation.					
	15. 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	as Substances (40 CFR 302)					
not applicable						
California Propositior 65	a : Not applicable					
SARA Title III Section 302 E	Extremely Hazardous Substance					
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regula					
SARA Title III Section 313 T	oxic Chemicals:					

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Chemical Name			CAS-No.		Weight percent		
CHROMIUM III COMPOU COMPOUNDSANTIMON COMPOUNDSCHROMIU		68186-90-3		10.00 - 30.00			
Canadian Regulations: National Pollutant Rele	ease Inventory (1	NPRI)					
Chemical Name		CAS-No.			NPRI ID#		
Rutile, antimony chromium	68186-	-90-3	10.00 -	30.00			
68186-90-3 DSL	: All of the components of this product are listed on the Canadian Inventories or are exempt. However, at least one component of this product is on the Canadian Non-Domestic Substances List (NDSL). Quantity use in Canada is restricted by regulations.						
	Inventori product i	ies or are exemp s on the Canadia	ot. Howeve an Non-Do	er, at least omestic S	one con ubstance	nponent of this	
National Inventories:	Inventori product i	ies or are exemp s on the Canadia	ot. Howeve an Non-Do	er, at least omestic S	one con ubstance	nponent of this	
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National Inventories: Australia AICS China IECS Europe EINECS	Inventori product i Quantity : Listed : Listed : Listed	ies or are exemp s on the Canadi use in Canada i	ot. Howeve an Non-Do	er, at least omestic S	one con ubstance	nponent of this	
National Inventories: Australia AICS China IECS Europe EINECS Japan ENCS	Inventori product i Quantity : Listed : Listed : Listed : Not deter	ies or are exemp s on the Canadi use in Canada i	ot. Howeve an Non-Do	er, at least omestic S	one con ubstance	nponent of this	

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.