PolvOne

MATERIAL SAFETY DATA SHEET FL SAFETY ORANGE UV

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name :	FL SAFETY ORANGE UV
Product code :	CC10122178
Chemical Name :	Mixture
CAS-No. :	Mixture
Product Use :	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Bis (1,2,2,6,6-pentamethyl-4-piperidinyl)	41556-26-7	1 - 5
sebacate		
Decanedioic acid, methyl 1,2,2,6,6-	82919-37-7	1 - 5
pentamethyl-4-piperidinyl ester		
Miscellaneous Zinc Compounds	0-05-5	1 - 5
Zinc oxide	1314-13-2	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Skin contact, Ingestion	
Acute exposure		
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.	
Ingestion	: May be harmful if swallowed.	
Eyes Skin	 Irritating to eyes and respiratory system. Experience shows no unusual dermatitis hazard from routine handling 	g.

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	: None known.				
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. Seek medical attention after signific exposure.	ant			
Ingestion : Do not induce vomiting without medical advice. Seek n attention if necessary.					
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. irritation persists, seek medical attention.	If ey			
Skin	: Wash off with soap and plenty of water. If skin irritation persist seek medical attention.	S			
	5. FIRE-FIGHTING MEASURES				
Flash point	: Greater than 200 °F (93 °C)				
Flammable Limits					
Upper explosion limit	: Not applicable				
Lower explosion limit	: Not applicable				
Autoignition temperature	: Not applicable				
Suitable extinguishing media	: Carbon dioxide blanket, Dry powder, Foam.				
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in posi pressure mode should be worn to prevent inhalation of airborne contaminants.	tive			
Unusual Fire/Explosion Hazards	 Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitroge (NOx), other hazardous materials, and smoke are all possible. 	en			
	6. ACCIDENTAL RELEASE MEASURES				
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.				
Environmental precautions	: The product should not be allowed to enter drains, water courses the soil. Should not be released into the environment.	or			
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this M for proper disposal methods.	SDS			

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		7. HANDLING AND STORAGE
Handling	:	Heat only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.
8. EX	POSU	RE CONTROLS/PERSONAL PROTECTION
Respiratory protection	:	Under normal handling conditions a respirator may not be 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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Components	Value	Exposure time	Exposure type	List:
Zinc oxide	2 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m3	Short Term Exposure Limit (STEL):	Respirable fraction.	ACGIH
	5 mg/m3	Recommended exposure limit (REL):	Fume.	NIOSH
	5 mg/m3	Recommended exposure limit (REL):	Dust.	NIOSH
	15 mg/m3	Ceiling Limit Value and Time Period (if specified):	Dust.	NIOSH
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	NIOSH
	5 mg/m3	PEL:	Fume.	OSHA Z1
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Fume.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odour Melting point/range Boiling Point: Water solubility
- liquid
 Viscous, liquid
 ORANGE
 Very faint
 Not applicable
 Not applicable
 Immiscible

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH Not establishedNot determined

- : Not applicable
- : Not determined
- : Not determined
- : Not applicable

10. STABILITY AND REACTIVITY

Stability

: Stable.

: Will not occur.

Hazardous Polymerization

Conditions to avoid : Keep away from oxidizing agents and open flame.

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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
41556-26-7	Bis (1,2,2,6,6-	sensitizer	Skin.
	pentamethyl-4-piperidinyl)		
	sebacate		
82919-37-7	Decanedioic acid, methyl	Irritant	Skin.
	1,2,2,6,6-pentamethyl-4-		
	piperidinyl ester		
0-05-5	Miscellaneous Zinc	Systemic effects	Eyes, Skin, Respiratory
	Compounds		system.
1314-13-2	Zinc oxide	Systemic effects	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
41556-26-7	Bis (1,2,2,6,6- pentamethyl-4-piperidinyl) sebacate	Oral LD50	> 2,000 mg/kg	rat
1314-13-2	Zinc oxide	LC50 Oral LD50	2500 mg/m3 7,950 mg/kg	mouse mouse

12. ECOLOGICAL INFORMATION

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Adverse ecological impact is not known or expected under normal use.
Bioaccumulation Potential	:	Does not bioaccumulate.
Additional advice	:	No data available

13. DISPOSAL CONSIDERATIONS

Product

: 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

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sion Number 1.0 ision Date 05/28/2009				Page 6 0 Print Date 1/8/20			
		applicable federal, state/p	provincial and lo	cal regulations.			
Contaminated packaging	:	Recycling is preferred wh material has the responsil transportation and dispos state/provincial and local	bility for proper al in accordance	waste classification,			
	1	4. TRANSPORT INFOR	MATION				
U.S. DOT Classification	:	Not regulated for transpo	ot regulated for transportation.				
ICAO/IATA (air)	:	Not regulated for transpo	rtation.				
IMO / IMDG (maritime)	:	Not regulated for transpo	rtation.				
	15	. REGULATORY INFO	RMATION				
US Regulations:	_						
-		Classified as he will 1	and an er som	onto			
OSHA Status	:	Classified as hazardous b	-				
TSCA Status	:	All components of this p TSCA Inventory.	roduct are listed	on or exempt from the			
US. EPA CERCLA Hazardou	us Sub	stances (40 CFR 302)					
Not applicable							
11							
California Proposition 65	n :	Not applicable					
SARA Title III Section 302 H	Extrem	ely Hazardous Substance					
Unless specific chemicals are	e identi	fied under this section, this	s product is Not	Applicable under this regulat			
SARA Title III Section 313 7	Foreio (Themiesler					
SAKA THE III SECUOI 515 I							
			s product is Not	Applicable under this regulat			
Unless specific chemicals are	e identi	fied under this section, this					
Chemical Name	e identi	fied under this section, this	CAS-No.	Weight %			
Chemical Name ZINC COMPOUNDS	e identi	fied under this section, this		Weight % 1.00 - 5.00			
Chemical Name	e identi	fied under this section, this	CAS-No. 1314-13-2	Weight %			

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Chemical Name		•	CAS-No.	Weight %	NPRI ID#
Zinc oxide			1314-13-2	1.00 - 5.00	
Miscellaneous Zinc Compo	unds		0-05-5	1.00 - 5.00	241
WHMIS Classification WHMIS Ingredient Di		222			
CAS-No. 1314-13-2					
DSL	:	DSL status has restricted by reg		ned. Quantity use	in Canada may
ational Inventories:					
Australia AICS	:	Not determined			
China IECS	:	Not determined			
Europe EINECS	:	Not determined			
Japan ENCS	:	Not determined			
Korea KECI	:	Not determined			
Philippines PICCS	:	Not determined			

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.