PolvOne

MATERIAL SAFETY DATA SHEET **RED CAP**

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POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012				
Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).		
Product name	:	RED CAP		
Product code	:	CC10183762		
Chemical Name	:	Mixture		
CAS-No.	:	Mixture		
Product Use	•	Industrial Applications		

ComponentsCAS-No.Weight percentFormamide, N,N'-1,6-hexanediylbis[N-
(2,2,6,6-tetramethyl-4-piperidinyl)-124172-53-85 - 10Iron oxide1309-37-15 - 10

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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Medical Conditions	al 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. 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. 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.			
	7. HANDLING AND STORAGE			
Handling	: Take measures to prevent the build up of electrostatic charge. Heat			



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		nly in areas with appropria	ata ayhayat yantilati		
	0	my mareas with appropria	ale exhaust ventilatio		
Storage		Leep containers dry and tig nd contamination. Keep i		moisture	absorption
8.]	EXPOSURE	CONTROLS/PERSON	AL PROTECTION	N	
Respiratory protection	: N	lo personal respiratory pro	tective equipment n	ormally re	equired.
Eye/Face Protection	: S	afety glasses with side-shi	elds		
Hand protection	: P	rotective gloves			
Skin and body protection	: L	ong sleeved clothing			
Additional Protective Measures	: S	afety 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)					
Components	Value	Exposure time	Exposure		List:
Iron oxide	10 mg/m3	PEL:	Fume.		OSHA Z
	5 mg/m3	Time Weighted Averag (TWA):	ge as Fe		MX OE
	10 mg/m3	Short Term Exposure Li (STEL):	mit as Fe		MX OE
	5 mg/m3	Time Weighted Averag (TWA):	ge Respirable fr	action.	ACGIH
	9. PHYSIC	CAL AND CHEMICAL	PROPERTIES		
Form	: solid		vapouration rate	: Not a	applicable
Appearance	: pelle		becific Gravity		letermined
Colour	: RED) Bi	ulk density		established
Odour	: very		apour pressure		pplicable
Melting point/range			apour density		pplicable
Boiling Point:		pplicable pI	1	: not a	pplicable
Water solubility	: insol	uble			
	10. 8	STABILITY AND REAC	CTIVITY		
Stability	: T	The product is stable if stor	ed and handled as p	rescribed.	

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Hazardous Polymerization	:	Will not occur.
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
124172-53-8	Formamide, N,N'-1,6- hexanediylbis[N-(2,2,6,6- tetramethyl-4-piperidinyl)-	Irritant	Eyes.
1309-37-1	Iron 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
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

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. 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



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Contaminated packaging	 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. 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	is Substances (40 CER 302)
	us Substances (40 cl R 502)
not applicable	
not applicable California Proposition 65	
not applicable California Proposition 65 SARA Title III Section 302 F	n : Not applicable Extremely Hazardous Substance
not applicable California Proposition 65 SARA Title III Section 302 F	n : Not applicable Extremely Hazardous Substance e identified under this section, this product is Not Applicable under this regulatio
not applicable California Proposition 65 SARA Title III Section 302 H Unless specific chemicals are SARA Title III Section 313 T	n : Not applicable Extremely Hazardous Substance e identified under this section, this product is Not Applicable under this regulatio Foxic Chemicals:
not applicable California Proposition 65 SARA Title III Section 302 H Unless specific chemicals are SARA Title III Section 313 T	n : Not applicable Extremely Hazardous Substance e identified under this section, this product is Not Applicable under this regulatio Foxic Chemicals:
not applicable California Proposition 65 SARA Title III Section 302 F Unless specific chemicals are SARA Title III Section 313 T Unless specific chemicals are Canadian Regulations:	n : Not applicable Extremely Hazardous Substance e identified under this section, this product is Not Applicable under this regulatio



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WHMIS Classification	:	D2B
WHMIS Ingredient Disclo	su	re List
CAS-No. 1309-37-1 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.
National Inventories:		
Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
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.