

MATERIAL SAFETY DATA SHEET

604 GRAY

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	Product Stewardship (440) 930-1395 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	604 GRAY
Product code	:	EM10006130
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Caprolactam	105-60-2	1 - 5

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 Skin	 Particulates, like other inert materials can be mechanically irritating. May be harmful if swallowed. Particulates, like other inert materials can be mechanically irritating. 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.
	4. FIRST AID MEASURES



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Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases o 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 sower explosion limit Autoignition temperature Suitable extinguishing media	 Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone.
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. 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 and contamination. Keep in a dry, cool place.
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Respiratory protection	: No personal respiratory protective equipment normally required.					
Eye/Face Protection	: S	: Safety glasses with side-shields.				
Hand protection	: P	rotective gloves.				
Skin and body protection	: L	ong sleeved clothing.				
Additional Protective Measures	: S	: 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		leat only in areas with app ppropriate exhaust ventila		tion. Provide		
Exposure limit(s)						
Components	Value	Exposure time	Exposure type	List:		
Caprolactam	1 mg/m3	Time Weighted Averag (TWA):		ACGIH		
	5 ppm 23 mg/m3	Time Weighted Averag (TWA):	ge Vapor.	ACGIH		
	3 mg/m3	Short Term Exposure Li (STEL):	mit Dust.	ACGIH		
	10 ppm 46 mg/m3	Short Term Exposure Li (STEL):	mit Vapor.	ACGIH		
	5 mg/m3	Time Weighted Average (TWA):	ge Vapor and aeros inhalable fractio			
	0 PHVSI	CAL AND CHEMICAL	PROPERTIES			
	<i>7.1113</i>	CAL AND CHEMICAL	I KOI EKTIES			
Form Appearance Color	: Solic : Pelle : GRE	ets, slabs Sj	vaporation rate : pecific Gravity: : ulk density :	Not applicable Not determined Not established		
Odor	: Very	faint V	apor pressure :	Not applicable		
Melting point/range			apour density :	Not applicable		
Boiling Point:		applicable pl	H :	Not applicable		
Water solubility	: Insol	uble				
	10. 8	STABILITY AND REAC	CTIVITY			
Stability	: S	table.				
Hazardous Polymerization	W	Vill not occur.				

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Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Strong acids, oxidizing and reducing 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
105-60-2	Caprolactam	Irritant	Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system,
			Liver, Kidney, central nervous
			system (CNS), heart or
			circulatory 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	
105-60-2	Caprolactam	LC50	300 mg/m3	rat	
		Oral LD50	1,210 mg/kg	rat	
		Dermal LD50	1410 ul/kg	rabbit	
	12. ECOLOG	CAL INFORMATI	ON		
Persistence and degra	adability : Not readily	biodegradable.			
Environmental Toxic		: Chemicals are not readily available as they are bound within the matrix of the polymer.			
Bioaccumulation Pot		: Chemicals are not readily available as they are bound within the matrix of the polymer.			
Additional advice	: Not applicat	ble			
	13. DISPOSA	L CONSIDERATIO	NS		
Product : Like most thermoplastic plastics the product can be recycled. Whe 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.		ration. The or proper waste ance with			
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Contaminated packaging :	
	14. TRANSPORT INFORMATION
U.S. DOT Classification :	Not regulated for transportation.
ICAO/IATA (air)	Refer to specific regulation.
IMO / IMDG (maritime) :	Refer to specific regulation.
1	5. 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 Hazardous Su	bstances (40 CFR 302)
Not applicable	
California Proposition : 65	WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
SARA Title III Section 302 Extrem	nely Hazardous Substance
Not applicable	
SARA Title III Section 313 Toxic	Chemicals:
Not applicable Canadian Regulations:	
National Pollutant Release	Inventory (NPRI)
Not applicable	
WHMIS Classification :	D1A



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WHMIS Ingredient Disclosure List CAS-No. 105-60-2 14807-96-6 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** Not determined · Japan ENCS Not determined ÷ 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 when used in combination with any other materials and/or in any particular process or processing conditions.