

MATERIAL SAFETY DATA SHEET

MSDS MS 600 A 2 GREY

Version Number 1.0 Revision Date 02/04/2004 Page 1 of 6 Print Date 11/13/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (440) 930-1395
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	MSDS MS 600 A 2 GREY
Product code	:	EM10005587
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Caprolactam	105-60-2	1 - 5
Molybdenum (IV) sulfide	1317-33-5	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 Medical Conditions	Refer to Section 11 for Toxicological Information.None known.
Aggravated by Exposure:	



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	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 doubt seek medical advice.	of
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 least 15 minutes. If eye irritation persists, seek medical attention.	at
Skin	: Wash off with soap and plenty of water. If skin irritation persists se medical attention.	el
	5. FIRE-FIGHTING MEASURES	
Flash point	: Not applicable	
Flammable Limits		
Upper explosion limit	: Not applicable	
Lower explosion limit	: Not applicable	
Autoignition temperature	: Not applicable	
Suitable extinguishing media	: 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.	3
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.	ot
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 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	

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8. 1	EXPOSURE	CONTROLS / PERSONAL	L PROTECTION			
Respiratory protection	: N	No personal respiratory protect	tive equipment normally re	equired.		
Eye/Face Protection	: S	: Safety glasses with side-shields.				
Hand protection	: P	Protective gloves.				
Skin and body protection	: L	long sleeved clothing.				
Additional Protective Measures	: S	afety shoes.				
General Hygiene Considerations		Handle in accordance with goo Wash hands before breaks and		afety practice		
Engineering measures		Heat only in areas with approp ppropriate exhaust ventilation		Provide		
Exposure limit(s)						
Components	Value	Exposure time	Exposure type	List:		
Caprolactam	1 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH		
	5 ppm 23 mg/m3	Time Weighted Average (TWA):	Vapor.	ACGIH		
	3 mg/m3	Short Term Exposure Limit (STEL):	t Dust.	ACGIH		
	10 ppm 46 mg/m3	Short Term Exposure Limit (STEL):	t Vapor.	ACGIH		
	5 mg/m3	Time Weighted Average (TWA):	Vapor and aerosol, inhalable fraction	ACGIH		
Molybdenum (IV) sulfide	0.5 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Mo	ACGIH		
	9. PHYSI	CAL AND CHEMICAL PR	OPERTIES			
	: Solid	d Evap		applicable		
			ific Gravity: • Not a	defermined		
Form Appearance Color	: Pelle	ets, slabs Spec	2	determined established		
	: Pelle : NO	ets, slabs Spec PIGMENT Bulk	density : Not	established		
Appearance Color	: Pelle : NO : Very	ets, slabs Spec PIGMENT Bulk y faint Vapo	density : Not of the second se			



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Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
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, heart or circulatory system.
1317-33-5	Molybdenum (IV) sulfide	Irritant	Eyes, Skin.

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	2. ECOLOGICAL INFORMATION	
Persistence and degradability	:	Not readily biodegradable.	1
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the matrix of the polymer.	
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the matrix of the polymer.	
Additional advice	:	Not applicable	
	1.	3. DISPOSAL CONSIDERATIONS	
Product	:	Like most thermoplastic plastics the product can be recycled. Where	



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Contaminated packaging	 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. 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.
	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.
	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 Hazardo	us Substances (40 CFR 302)
Not applicable	
California Propositio 65	n : This product does not contain a substance listed by California Prop 65.
SARA Title III Section 302 I	Extremely Hazardous Substance
Not applicable	
SARA Title III Section 313	Foxic Chemicals:
Not applicable Canadian Regulations:	
National Pollutant Re	lease Inventory (NPRI)
Not applicable	



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WHMIS Classification : D1A WHMIS Ingredient Disclosure List CAS-No. 105-60-2 1317-33-5 DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt. National Inventories: Australia AICS Listed · China IECS Listed · **Europe EINECS** Not determined ÷ Japan ENCS Not determined : Korea KECI · Not determined **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 when used in combination with any other materials and/or in any particular process or processing conditions.