POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

AM100 PROGRESSIVE RED

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
8155 Cobb Center Drive, Kennesaw, GA 30152

Telephone	:	Product Stewardship (770) 590-3500 x.3563
Emergency telephone	:	**CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**
Product name	:	AM100 PROGRESSIVE RED
Product code	:	FO20018840
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Lead chromate	7758-97-6	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1
Isopropanol	67-63-0	0.1 - 1
Methyl ethyl ketone	78-93-3	60 - 100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable. May be harmful if inhaled. Harmful if swallowed. May cause skin irritation. Flammable liquid and vapor. Vapors may be irritating to eyes and respiratory tract. 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. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

Acute exposure

Inhalation	:	Excessive inhalation of product vapors may cause respiratory irritation, headaches, dizziness, and/or nausea.
Ingestion	:	May be harmful if swallowed. May cause nausea, abdominal spasms and irritation of the mucous membranes.
Eyes	:	Liquid, aerosol, or vapors of this product are irritating and may cause tearing, reddening, and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin	:	Prolonged or repeated skin contact can cause de-fatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Chronic exposure	:	Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	:	Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne contaminant.

4. FIRST AID MEASURES

Inhalation	:	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Seek medical attention after significant exposure.
Ingestion	:	Do not induce vomiting without medical advice. If conscious, drink plenty of water. Seek medical attention if necessary.
Eyes	:	Rinse immediately with plenty of water 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. FIRE-FIGHTING MEASURES

Flash point	:	Less than 75 °F (24 °C)
Flammable Limits		
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Autoignition temperature	:	No data available
Suitable extinguishing media	:	Carbon dioxide blanket, Water, Foam, Dry chemical.
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	:	The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling	:	Flammable liquid. Keep away from flames, hot surfaces, and sources of ignition. Use of non-sparking or explosion-proof equipment may be necessary. Never use compressed air for transferring product. Ensure all equipment is electrically grounded before beginning transfer operations. Take measures to prevent the build up of static electricity. Use only in area provided with appropriate exhaust ventilation.
Storage	:	Store below 120 °F (49 °C) Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammable Liquid. Check local fire regulations for sprinkler or explosion proof storage location requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	:	Airborne contaminant levels should be maintained below the occupational exposure guidelines. When respiratory protection is required, use an approved air-purifying or positive pressure supplied-air respirator, depending upon potential airborne contaminant concentrations. Employees using respirators must be properly trained.
Eye/Face Protection	:	Wear goggles or face shield during operations that present a splash potential.
Hand protection	:	Protective gloves Protective gloves. Refer to equipment supplier to ensure protection.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
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. Ensure adequate ventilation, especially in confined areas.
Engineering measures	:	Provide general and/or local exhaust ventilation to control airborne contaminant levels below the exposure guidelines.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Lead chromate	0.012 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
	0.005 mg/m3	Time Weighted Average (TWA):		OSHA
	0.0025 mg/m3	OSHA Action level:		OSHA
	0.1 mg/m3	Ceiling Limit Value:		OSHA Z2
	0.01 mg/m3	Time Weighted Average (TWA):		MX OEL
	1 mg/m3	PEL:	as Cr	OSHA Z1
	0.05 mg/m3	Time Weighted Average (TWA):		OSHA
	0.03 mg/m3	OSHA Action level:		OSHA
	0.15 mg/m3	Time Weighted Average (TWA):	Dust and fume. as Pb	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):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL
Isopropanol	200 ppm	Time Weighted Average (TWA):		ACGIH
	400 ppm	Short Term Exposure Limit (STEL):		ACGIH
	400 ppm 980 mg/m3	PEL:		OSHA Z1
	400 ppm 980 mg/m3	Time Weighted Average (TWA):		MX OEL
	500 ppm 1,225 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Methyl ethyl ketone	200 ppm	Time Weighted Average (TWA):		ACGIH
	300 ppm	Short Term Exposure Limit (STEL):		ACGIH
	200 ppm 590 mg/m3	PEL:		OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Evaporation rate	: Faster than Butyl Acetate
Appearance	: liquid	Specific Gravity	: Not determined

Color	:	RED	Bulk density	:	Not applicable
Odour	:	solvent	Vapour pressure	:	Not determined
Melting point/range	:	Not applicable	Vapour density	:	Heavier than air.
Boiling Point:	:	No data available	pH	:	Not determined
Water solubility	:	negligible			

10. STABILITY AND REACTIVITY

Stability : Stable.

Hazardous Polymerization : Will not occur.

Conditions to avoid : Keep away from oxidizing agents and open flame. Heat, flames and sparks.

Incompatible Materials : Incompatible with strong acids and oxidizing agents.

Hazardous decomposition products : Carbon dioxide (CO2), carbon monoxide (CO), 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
7758-97-6	Lead chromate	Systemic effects	central nervous system (CNS), reproductive system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
67-63-0	Isopropanol	Irritant	Eyes, Skin.
		Systemic effects	central nervous system (CNS), Kidney, Liver.
78-93-3	Methyl ethyl ketone	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	central nervous system (CNS).

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
7758-97-6	Lead chromate	Oral LD50	> 12 gm/kg	mouse

67-63-0	Isopropanol	LC50 Oral LD50Oral LD50Oral LD50Oral LD50Oral LD50 Dermal LD50 Dermal LD50	16000 ppm 3,600 mg/kg3,600 mg/kg6,410 mg/kg4,700 - 5,800 mg/kg5,045 mg/kg 12,800 mg/kg 5,030 - 7,900 mg/kg	rat mousemouserab bitratrat rabbit rabbit
78-93-3	Methyl ethyl ketone	LC50 LC50 LC50 Oral LD50Oral LD50Oral LD50Oral LD50 Dermal LD50 Dermal LD50	32 gm/m3 4,050 mg/kg670 mg/kg2,300 - 3,500 mg/kg4,500 - 6,800 mg/kg 6,480 mg/kg 8,000 mg/kg	mouse mouse rat mousemouseratr at rabbit rabbit

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
7758-97-6	Lead chromate	yes	1	no
13463-67-7	Titanium dioxide	no	2B	no
67-63-0	Isopropanol	no	3	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.

Additional Health Hazard Information:
Lead chromate 7758-97-6 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

12. ECOLOGICAL INFORMATION

Persistence and degradability : No data available

Environmental Toxicity : No data available

Bioaccumulation Potential	:	No data available
Additional advice	:	No data available

13. DISPOSAL CONSIDERATIONS

Product	:	Dispose of properly. Do not dump into sewers, on the ground, or into any body of water. 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	
Proper Shipping Name:	Resin solution
Technical Name:	
Hazard Class / Division	3
UN Number	UN1866
Packing Group	II
Label Required	3
Hazardous Substance	Not applicable
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 Hazardous Substances (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 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight %
CHROMIUM VI COMPOUNDSLEAD COMPOUNDSLEAD COMPOUNDS, INORGANICCHROMIUM VI COMPOUNDSCHROMIUM COMPOUNDSLEAD COMPOUNDSLEAD COMPOUNDS, INORGANIC	7758-97-6	0.10 - 1.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Lead chromate	7758-97-6	0.10 - 1.00	
		0.10 - 1.00	
Isopropanol	67-63-0	0.10 - 1.00	
Methyl ethyl ketone	78-93-3	60.00 - 100.00	

WHMIS Classification : D2A, B2

WHMIS Ingredient Disclosure List

CAS-No.
7758-97-6
78-93-3

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	:	Listed
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 used in combination with any other materials or in any process, unless specified in the text.