

## MATERIAL SAFETY DATA SHEET

**P1140 CLEAR**

Version Number 1.0  
Revision Date 07/22/2002

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<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>
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**POLYONE CORPORATION**  
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800

Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : P1140 CLEAR

Product code : FO00012885

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

<b>2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS</b>
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Components	CAS-No.	Weight %
2-Propenoic acid, 2-methyl-, methyl ester	80-62-6	0.1 - 1
Acetone	67-64-1	1 - 5
Methyl alcohol	67-56-1	10 - 30
Toluene	108-88-3	10 - 30
Methyl ethyl ketone	78-93-3	30 - 60

<b>3. HAZARDS IDENTIFICATION</b>
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**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

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- Skin : and/or a feeling like that of fine dust in the eyes.  
: 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 : foam, dry chemical, carbon dioxide (CO<sub>2</sub>), Water spray.
- 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 : None

#### 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 : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in

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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. Employers must follow applicable regulations such as OSHA 29 CFR 1910.134.
- Eye/Face Protection** : Wear goggles or face shield during operations that present a splash potential.
- Hand protection** : Protective gloves.
- 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)

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Components	Value	Exposure time	Exposure type	List:
Acetone	500 ppm 1,188 mg/m <sup>3</sup>	Time Weighted Average (TWA):		ACGIH
	750 ppm 1,782 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):		ACGIH
Acetone	1,000 ppm 2,400 mg/m <sup>3</sup>	PEL:		OSHA Z1
Methyl alcohol	200 ppm 262 mg/m <sup>3</sup>	Time Weighted Average (TWA):		ACGIH
	250 ppm 328 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):		ACGIH
Methyl alcohol	200 ppm 260 mg/m <sup>3</sup>	PEL:		OSHA Z1
2-Propenoic acid, 2-methyl-, methyl ester	50 ppm 205 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Vapor.	ACGIH
	100 ppm 410 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):	Vapor.	ACGIH
2-Propenoic acid, 2-methyl-, methyl ester	100 ppm 410 mg/m <sup>3</sup>	PEL:	Vapor.	OSHA Z1
Toluene	50 ppm 188 mg/m <sup>3</sup>	Time Weighted Average (TWA):	toluene vapor	ACGIH
Toluene	200 ppm	Time Weighted Average (TWA):	toluene vapor	OSHA Z2
	300 ppm	Ceiling Limit Value:	toluene vapor	OSHA Z2
	500 ppm	Maximum concentration:	toluene vapor	OSHA Z2
Methyl ethyl ketone	200 ppm	Time Weighted Average (TWA):	Vapor.	ACGIH
	300 ppm	Short Term Exposure Limit (STEL):	Vapor.	ACGIH

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid	Evaporation rate	: Faster than Butyl Acetate
Appearance	: Liquid	Specific Gravity	: Not determined
Color	: NO PIGMENT	Bulk density	: Not applicable.
Odor	: Solvent	Vapor pressure	: Not determined
Melting point/range	: Not applicable.	Vapor 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.

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- 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 (CO<sub>2</sub>), 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
80-62-6	2-Propenoic acid, 2-methyl-, methyl ester	Systemic effects	Liver, Kidney, central nervous system, Skin.
		sensitizer	Skin.
67-64-1	Acetone	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, central nervous system.
67-56-1	Methyl alcohol	Systemic effects	Eyes, Skin, Respiratory system, central nervous system, digestive system.
108-88-3	Toluene	Systemic effects	central nervous system, Liver, Kidney, urinary system.
		Irritant	Skin, Eyes.
78-93-3	Methyl ethyl ketone	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	central nervous 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
80-62-6	2-Propenoic acid, 2-methyl-, methyl ester	LC50 Oral LD50 Dermal LD50	18500 mg/m <sup>3</sup> 3,625 mg/kg > 5 gm/kg	mouse mouse rabbit
67-64-1	Acetone	LC50 Oral LD50	50100 mg/m <sup>3</sup> 5,800 mg/kg	rat rat
67-56-1	Methyl alcohol	LC50 Oral LD50 Dermal LD50	64000 ppm/4H 5,628 mg/kg 15,800 mg/kg	rat rat rabbit
108-88-3	Toluene	LC50 Oral LD50 Dermal LD50	49 gm/m <sup>3</sup> 636 mg/kg 14100 ul/kg	rat rat rabbit
78-93-3	Methyl ethyl ketone	LC50 Oral LD50 Dermal LD50	32 gm/m <sup>3</sup> 4,050 mg/kg 6,480 mg/kg	mouse mouse rabbit

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**Additional Health Hazard Information:**

**Methyl alcohol 67-56-1** May cause optic nerve damage and blindness, with CNS effects, narcosis, acidosis.

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : No data available.

Environmental Toxicity : Adverse ecological impact is not known or expected under normal use.

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: Flammable liquids, n.o.s.  
Technical Name: Methyl ethyl ketoneToluene  
Hazard Class / Division 3  
UN Number UN1993  
Packing Group II  
Label Required 3  
Hazardous Substance Toluene  
Reportable quantity: 9,244 LB

ICAO/IATA Refer to specific regulation.

IMO / IMDG Refer to specific regulation.

**15. REGULATORY INFORMATION**

US Regulations:

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OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on the TSCA inventory or are exempt.

## US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Methyl ethyl ketone	78-93-3	54.09	5,000 lbs	9,244 LB

California Proposition 65 : WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

## SARA Title III Section 302 Extremely Hazardous Substance

Chemical Name	CAS-No.	% in Product	RQ for component
Phenol	108-95-2	0.57	1,000 lbs

## SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
METHANOL	67-56-1	11.37
TOLUENE	108-88-3	10.71
METHYL ETHYL KETONE	78-93-3	54.09

## Canadian Regulations:

WHMIS Classification : D2A

## WHMIS Ingredient Disclosure List

CAS-No.
67-64-1
67-56-1
80-62-6
108-88-3
108-95-2
78-93-3

DSL : Listed.

## National Inventories:

Australia AICS : Listed.

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China IECS	:	Listed.
Europe EINECS	:	Not determined.
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.