

MATERIAL SAFETY DATA SHEET

P1157 BLACK

Version Number 1.0
Revision Date 02/24/2003

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1. PRODUCT AND COMPANY IDENTIFICATION

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 : P1157 BLACK
 Product code : FO00012888
 Chemical Name : Mixture
 CAS-No. : Mixture
 Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Acetone	67-64-1	1 - 5
Ethyl acetate	141-78-6	1 - 5
Toluene	108-88-3	10 - 30
Ethyl alcohol	64-17-5	10 - 30
Methyl isobutyl ketone	108-10-1	10 - 30
Cyclohexanone	108-94-1	10 - 30
Methyl ethyl ketone	78-93-3	10 - 30

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.

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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 : foam, dry chemical, carbon dioxide (CO₂), 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.

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Methods for cleaning up : Contain and collect spillage 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. 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 ³	Time Weighted Average (TWA):		ACGIH
	750 ppm 1,782 mg/m ³	Short Term Exposure Limit (STEL):		ACGIH
Acetone	1,000 ppm 2,400 mg/m ³	PEL:		OSHA Z1
Toluene	50 ppm 188 mg/m ³	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
Ethyl alcohol	1,000 ppm 1,880 mg/m ³	Time Weighted Average (TWA):	Vapor.	ACGIH
Ethyl alcohol	1,000 ppm 1,900 mg/m ³	PEL:	Vapor.	OSHA Z1
Methyl isobutyl ketone	50 ppm 205 mg/m ³	Time Weighted Average (TWA):	Vapor.	ACGIH
	75 ppm 307 mg/m ³	Short Term Exposure Limit (STEL):	Vapor.	ACGIH
Methyl isobutyl ketone	100 ppm 410 mg/m ³	PEL:	Vapor.	OSHA Z1
Methyl isobutyl ketone	50 ppm 205 mg/m ³	Time Weighted Average (TWA):	Vapor.	OSHA Z1A
	75 ppm 300 mg/m ³	Short Term Exposure Limit (STEL):	Vapor.	OSHA Z1A
Cyclohexanone	25 ppm	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
Cyclohexanone	50 ppm 200 mg/m ³	PEL:	Vapor and aerosol.	OSHA Z1
Ethyl acetate	400 ppm	Time Weighted Average (TWA):		ACGIH
Ethyl acetate	400 ppm 1,400 mg/m ³	PEL:		OSHA Z1
Ethyl acetate	400 ppm 1,400 mg/m ³	Time Weighted Average (TWA):		OSHA Z1A
Ethyl acetate	400 ppm 1,400 mg/m ³	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):		US CA OEL
	400 ppm 1,400 mg/m ³	Time Weighted Average (TWA):		MX OEL

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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	: BLACK	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.
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 ₂), 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
67-64-1	Acetone	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, central nervous system.
141-78-6	Ethyl acetate	Systemic effects	Eyes, Skin, Respiratory system.
108-88-3	Toluene	Systemic effects	central nervous system, Liver, Kidney, urinary system.
		Irritant	Skin, Eyes.
64-17-5	Ethyl alcohol	Systemic effects	Liver, heart or circulatory system, central nervous system, reproductive system.

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108-10-1	Methyl isobutyl ketone	Systemic effects	central nervous system, reproductive system.
		Irritant	Eyes.
108-94-1	Cyclohexanone	Systemic effects	Eyes, Skin, Respiratory system, Liver, Kidney, central nervous system.
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
67-64-1	Acetone	LC50	50100 mg/m ³	rat
		Oral LD50	5,800 mg/kg	rat
141-78-6	Ethyl acetate	LC50	45 gm/m ³	mouse
		Oral LD50	5,620 mg/kg	rat
108-88-3	Toluene	LC50	49 gm/m ³	rat
		Oral LD50	636 mg/kg	rat
		Dermal LD50	14100 ul/kg	rabbit
64-17-5	Ethyl alcohol	LC50	20000 ppm	rat
		Oral LD50	3,450 mg/kg	mouse
108-10-1	Methyl isobutyl ketone	LC50	100 gm/m ³	rat
		Oral LD50	2,080 mg/kg	rat
108-94-1	Cyclohexanone	LC50	8000 ppm	rat
		Oral LD50	1620 ul/kg	rat
78-93-3	Methyl ethyl ketone	LC50	32 gm/m ³	mouse
		Oral LD50	4,050 mg/kg	mouse
		Dermal LD50	6,480 mg/kg	rabbit

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

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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 ketone, Toluene
Hazard Class / Division 3
UN Number UN1993
Packing Group II
Label Required 3
Hazardous Substance Toluene
Reportable quantity: 6,668 LB

ICAO/IATA Refer to specific regulation.

IMO / IMDG 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)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
Toluene	108-88-3	14.9979	1,000 lbs	6,668 LB

California Proposition 65 : 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

Chemical Name	CAS-No.	% in Product	RQ for component
Phenol	108-95-2	0.58	1,000 lbs

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SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
TOLUENE	108-88-3	14.99
METHYL ISOBUTYL KETONE	108-10-1	11.09
METHYL ETHYL KETONE	78-93-3	26.42

Canadian Regulations:

WHMIS Classification : D1B, B2

WHMIS Ingredient Disclosure List

CAS-No.
67-64-1
108-88-3
64-17-5
108-10-1
108-94-1
141-78-6
78-93-3

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

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

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