

## LOW TEMP FIXATIVE

Version Number 1.0  
Revision Date 06/11/2002

Page 1 of 6  
Print Date 11/5/2011

### 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 : LOW TEMP FIXATIVE  
 Product code : FO00002950  
 Chemical Name : Mixture  
 CAS-No. : Mixture  
 Product Use : Industrial Applications

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
2-Methoxy-1-methylethyl acetate	108-65-6	30 - 60
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

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. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

#### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** : Inhalation, Skin contact, Ingestion

#### Acute exposure

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.  
 Ingestion : May be harmful if swallowed.  
 Eyes : May cause eye/skin irritation.  
 Skin : Experience shows no unusual dermatitis hazard from routine handling.

**Chronic exposure** : Refer to Section 11 for Toxicological Information.

## MATERIAL SAFETY DATA SHEET

**LOW TEMP FIXATIVE**

Version Number 1.0

Revision Date 06/11/2002

Page 2 of 6

Print Date 11/5/2011

**Medical Conditions** : None known.  
**Aggravated by Exposure:**

**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 of 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 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** : No data available.

**Flammable Limits**  
 Upper explosion limit : No data available.  
 Lower explosion limit : No data available.

**Autoignition temperature** : Not applicable.

**Suitable extinguishing media** : Carbon dioxide blanket, dry powder, foam, 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** : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

**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** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

**Handling** : Heat only in areas with appropriate exhaust ventilation. Processing

## MATERIAL SAFETY DATA SHEET

**LOW TEMP FIXATIVE**

Version Number 1.0

Page 3 of 6

Revision Date 06/11/2002

Print Date 11/5/2011

fume condensates may contain combustible or toxic residue.  
Periodically clean hoods, ducts, and other surfaces to minimize  
accumulation of these materials.

Storage : Keep containers dry and tightly closed to avoid moisture absorption  
and contamination. Store in a cool dry place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory protection : Under normal handling conditions a respirator is not required.

Eye/Face Protection : Safety glasses with side-shields.

Hand protection : Protective gloves.

Skin and body protection : Long sleeved clothing.

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.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide  
appropriate exhaust ventilation at machinery.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Xylenes (o-, m-, p- isomers)	100 ppm	Time Weighted Average (TWA):	Vapor and aerosol.	ACGIH
	434 mg/m3			
Xylenes (o-, m-, p- isomers)	150 ppm	Short Term Exposure Limit (STEL):	Vapor and aerosol.	ACGIH
	651 mg/m3			
Xylenes (o-, m-, p- isomers)	100 ppm	PEL:	Vapor and aerosol.	OSHA Z1
	435 mg/m3			

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid

Appearance : Viscous, Liquid

Color : NOT APPLICABLE

Odor : Very faint

Melting point/range : Not applicable

Boiling Point: : Not applicable

Water solubility : Immiscible

Evaporation rate : Not established

Specific Gravity : Not determined

Bulk density : Not applicable.

Vapor pressure : Not determined

Vapor density : Not determined

pH : Not applicable.

**10. STABILITY AND REACTIVITY**

Stability : Stable.

## MATERIAL SAFETY DATA SHEET

**LOW TEMP FIXATIVE**

Version Number 1.0

Page 4 of 6

Revision Date 06/11/2002

Print Date 11/5/2011

- Hazardous Polymerization : Will not occur.
- Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
- Incompatible Materials : Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.
- Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

**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
108-65-6	2-Methoxy-1-methylethyl acetate	Systemic effects	Liver, Kidney.
1330-20-7	Xylenes (o-, m-, p-isomers)	Irritant	Eyes, Respiratory system.
		Systemic effects	Eyes, Skin, Respiratory system, blood and blood forming system, Liver, Kidney, central nervous system, digestive 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
108-65-6	2-Methoxy-1-methylethyl acetate	Oral LD50 Dermal LD50	8,532 mg/kg > 5 gm/kg	rat rabbit
1330-20-7	Xylenes (o-, m-, p-isomers)	LC50 Oral LD50 Dermal LD50	5000 ppm/4H 4,300 mg/kg > 1,700 mg/kg	rat rat rabbit

**12. ECOLOGICAL INFORMATION**

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Environmental toxicity has not been established for this mixture as a

## MATERIAL SAFETY DATA SHEET

**LOW TEMP FIXATIVE**

Version Number 1.0  
Revision Date 06/11/2002

Page 5 of 6  
Print Date 11/5/2011

whole.

Bioaccumulation Potential : No data available.

Additional advice : No data available.

**13. DISPOSAL CONSIDERATIONS**

Product : 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. D.O.T. / CA T.D.G. Classification (Non-bulk ground) : Not regulated for transportation.

ICAO/IATA : Not regulated for transportation.

IMO / IMDG : Not regulated for transportation.

**15. REGULATORY INFORMATION**

## US Regulations:

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
Xylenes (o-, m-, p-isomers)	1330-20-7	2.00	100lbs	5,000 LB

California Proposition 65 : This product does not contain a substance listed by California Prop 65.

## MATERIAL SAFETY DATA SHEET

**LOW TEMP FIXATIVE**Version Number 1.0  
Revision Date 06/11/2002Page 6 of 6  
Print Date 11/5/2011

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
XYLENE (MIXED ISOMERS)	1330-20-7	2.00

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1330-20-7

DSL : Listed.

National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Listed.

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.