# **Material Safety Data Sheet**

**Part No.:** 0905

# PLASTIC WELDER II ACTIVATOR

This product appears in the following stock number(s):

14335 14340 14390 DA320 Last revised: 11/16/1999

Printed: 12/12/2000

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: PLASTIC WELDER II ACTIVATOR

General use: Adhesive

Chemical family: Acrylate

MANUFACTURER EMERGENCY INFORMATION

 ITW Devcon
 Emergency telephone number

 30 Endicott St.
 (CHEMTREC): (800) 424-9300

 Danvers, MA 01923
 Other Calls: (978) 777-1100

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS CONSTITUENTS

#### **Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
3,5-Diethyl-1,2-dihydro-1-phenyl-2- propylpyridine		34562317	1-10	n/e	n/e	n/e
Methyl Methacrylate Monomer	MMA	80626	70-80	100 ppm	100 ppm	100 ppm (Canada)

<sup>&</sup>quot;TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

#### 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance, form, odor: Paste with varied fragrant odor.

WARNING! Flammable. Overexposure to liquid, mist or vapor may have the following effects: EYE AND SKIN EXPOSURE: Irritant and potential skin sensitizer. May cause redness, itching, burning, rash. RESPIRATORY EXPOSURE: Irritant. May cause headache, nausea, dizziness, fatigue, drowsiness. Avoid breathing vapor. Use with adequate ventilation or use proper respiratory equipment. Wash thoroughly after handling. Do not take internally. Keep away from heat, sparks, open flames.

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Potential health effects				
Primary routes of exposure:	Skin contact	Skin absorption	Eye contact	nhalation Ingestion
Symptoms of acute overexposure:				
Skin: May cause irritation and sensitiz Eyes: Liquid and vapors causes mode damage.		•		elling). May cause corneal
Inhalation: High concentration is irritant to res	piratory tract an	d may cause dizzine:	ss, headache, and	anaesthetic effects.
Ingestion: Causes irritation, a burning sensat	ion of the mouth	, throat and gastroint	estinal tract and al	odominal pain.
Effects of chronic overexposure:  Prolonged exposure may lead to ki	dney, lung, hear	t and liver damage.		
Carcinogenicity OSHA regulated: N	0	ACGIH: No	National Toxic	ology Program: No
International Agend	y for Research o	n Cancer: No		
Other effects:  Developmental toxicity observed in some of its derivatives may include disturbances.				
4. FIRST AID MEASURES				
First aid for eyes:  Flush eye with clean water for at le	east 15 minutes	while gently holding e	eyelids open. Get	immediate medical attention.
First aid for skin: Immediately remove contaminated warm soap and water. Consult a p	-		lush skin with wat	er. Wash thoroughly with
First aid for inhalation: Remove patient to fresh air. Admi	nister oxygen if	breathing is difficult.	Get medical atten	tion if symptoms persist.
First aid for ingestion:  Do NOT induce vomiting. Give two	o glasses of wat	er to dilute if patient is	s conscious. Get	medical attention.
5. FIRE FIGHTING MEASURE	S			
General fire and explosion character Vapor forms explosive mixture with				
Extinguishing media:  Water  Carbo	n dioxide	Dry chemical	Foam	Alcohol foam

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Flash Point (°F): 50 Method: TCC

Explosive limits in air (percent) -- Lower: 2.1 Upper: 12.5

#### Special firefighting procedures:

Keep personnel removed and upwind from fire. Wear self contained breathing apparatus and full protective equipment. Cool tank with water spray. Fight fire from a distance as the heat may rupture the tanks.

# Unusual fire and explosion hazards:

Sealed containers at elevated temperatures may rupture due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back.

#### Hazardous products of combustion:

Toxic vapors may be released upon thermal decomposition (cyanide, nitrogen oxides).

# 6. ACCIDENTAL RELEASE MEASURES

#### Spill control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

#### **Containment:**

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

#### Cleanup:

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste). Add inhibitor to prevent polymerization.

#### Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

# 7. HANDLING AND STORAGE

### **Handling precautions:**

Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Close container after each use. Ground container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools.

#### Storage:

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Engineering controls**

#### Ventilation:

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

#### Other engineering controls:

Keep container tightly closed. Observe label precautions. Have emergency eye wash and safety shower present.

#### Personal protective equipment

#### Eye and face protection:

Wear safety glasses. Wear coverall chemical splash goggles and face shield when eye and face contact is possible.

# Skin protection:

Wear impervious butyl rubber clothing as appropriate to prevent contact.

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#### Respiratory protection:

A NIOSH/MSHA air purifying respirator with an organic vapor cartridge may be permissible, however use a positive pressure air supplied respirator if there is any potential for uncontrolled release, or unknown exposure levels.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity: 0.96 Boiling point (°F): 213

Melting point (°F): n/d Vapor density (air = 1): 3.5

Vapor pressure (mmHg): 28 mm Hg at 68 °F Evaporation rate (butyl acetate = 1): 3

VOC (grams/liter): < 50 mixed Solubility in water: n/d

Percent volatile by volume: n/d pH (5% solution or slurry in water): 4.5-5.5

Percent solids by weight: n/d

#### 10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization may occur.

#### Conditions to avoid:

Unstable with heat, direct sunlight, inert gas blanketing, ultraviolet radiation.

#### Incompatible materials:

Incompatible with strong oxidizing agents and reducing agents, acids and bases. Material is a strong solvent and can soften paint and rubber.

#### Hazardous products of decomposition:

Carbon monoxide, carbon dioxide, nitrogen oxides, cyanide and smoke.

#### Conditions under which hazardous polymerization may occur:

Excessive heat, storage in the absence of inhibitor and inadvertant addition of catalyst.

# 11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): Not available.

Toxicity of MMA exposed near LD50 include blood in the urine and liver changes.

Acute dermal effects: LD50 (rabbit): Not available.

Dermatitis.

Acute inhalation effects: LC50 (rat): Not available.

Toxicity of MMA at 8-100 times TLV from respiratory and gastrointestional irritation, lung damage, nervous system effects and blood in urine.

### Eye irritation:

Not available.

#### Subchronic effects:

Inhalation: Repeated exposure of MMA at 5-100 times the TLV include lung damage, pulmonary irritation, liver changes, eye irritation, nasal tissue changes, incoordination and upper respiratory irritation. Ingestion: Liver and kidney affects

Exposure: 4 hours.

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with altered function in both organs. Skin permeation may occur.

### Carcinogenicity, teratogenicity, and mutagenicity:

Possible reproductive hazard based on animal data.

#### Other chronic effects:

Inhalation: long term exposure of MMA caused inflammation of the nasal cavity, changes in nasal sensory cells and decreased body weight. Ingestion: Can cause decreased body weight, and increased kidney weight

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	> 500 mg/kg	> 1000 mg/kg	n/d
Methyl Methacrylate Monomer	7872 mg/kg	> 5000 mg/kg	7093 ppm

'n/d' = 'not determined'

#### 12 ECOLOGICAL INFORMATION

# **Ecotoxicity:**

MMA has: estimate of 96 hour median threshold limit: 100-1,000 ppm; 96 hour LC50, fathead minnow: 150 ppm; 96 hour LC50, bluegill sunfish: 232 ppm

# Mobility and persistence:

MMA is partially biodegradable in water. BOD-5 day: 0.14 g/g - 0.90 g/g; THOD: 1.92 g/g

#### **Environmental fate:**

MMA produces high tonnage material in wholly contained systems. Liquid with moderate mobility. Sparingly soluble in water. High potential for bioaccumulation. Low mobility in soil.

#### 13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

#### Waste management recommendations:

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

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# 14. TRANSPORT INFORMATION

**Proper shipping name:** Adhesives \*

Technical name: N/A
Hazard class: 3
UN number: 1133
Packing group: II

Emergency Response Guide no.: 128

IMDG page number: 3174

Other: Containers < 30 liters are PG III

\*Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate regulation.

#### 15. REGULATORY INFORMATION

# **U.S. Federal Regulations**

#### TSCA:

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

# The following RCRA code(s) applies to this material if it becomes waste:

D001

# Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	No	No	0.0	Not required
Methyl Methacrylate Monomer	No	Yes	1000.0	Required

<sup>\*</sup>Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -- Fire hazard --

Reactivity hazard -

#### Canadian regulations

WHMIS hazard class(es): B2; D2B

#### **Regulatory notes:**

In normal use, the methyl methacrylate in this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. MMA) emitted is negligible (less than 5 %). Actual emissions are a function of substrate and process and should be considered on an individual basis.

<sup>\*\*</sup>Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

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# 16. OTHER INFORMATION

Identification System (HMIS) ratings:  Health Flammability Reactivity  2*  3  2	ous Materials Health Flammabil (ation System (HMIS) 2* 3	lity Reactivity 2
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The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.

# **Material Safety Data Sheet**

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# PLASTIC WELDER II ADHESIVE

This product appears in the following stock number(s):

14335 14340 14390 DA305 DA320

Last revised: 12/04/1998

Printed: 12/12/2000

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: PLASTIC WELDER II ADHESIVE

General use: Adhesive

Chemical family: Acrylate

MANUFACTURER EMERGENCY INFORMATION

ITW Devcon Emergency telephone number 30 Endicott St. (CHEMTREC): (800) 424-9300 Danvers, MA 01923 Other Calls: (978) 777-1100

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS CONSTITUENTS

#### **Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Maleic acid		110167	1-10	n/e	n/e	n/e
2,6-Di-tertiary-butyl-para-cresol	BHT	128370	1-10	10 mg/m3	10mg/m3	n/e
Methyl Methacrylate Monomer	MMA	80626	50-60	100 ppm	100 ppm	100 ppm (Canada)

<sup>&</sup>quot;TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

Appearance, form, odor: Off-white paste with varied fragrant odor.

WARNING! Flammable. Overexposure to liquid, mist or vapor may have the following effects: EYE AND SKIN EXPOSURE: Irritant and potential skin sensitizer. May cause redness, itching, burning, rash. RESPIRATORY EXPOSURE: Irritant. May cause headache, nausea, dizziness, fatigue, drowsiness. Avoid breathing vapor. Use with adequate ventilation or use proper respiratory equipment. Wash thoroughly after handling. Do not take internally. Keep away from heat, sparks, open flames.

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Potential health effects				
Primary routes of exposure:	Skin contact	Skin absorption	Eye contact	nhalation Ingestion
Symptoms of acute overexposure:				
Skin: May cause irritation and sensitiz  Eyes: Liquid and vapors causes moder  conjunctivitis and corneal damag	ate irritation (buri	• •	~	
Inhalation: High concentration is irritant to res	piratory tract and	may cause dizzines	ss, headache, and a	naesthetic effects.
Ingestion: Causes irritation, a burning sensati vomiting.	on of the mouth,	throat and gastroint	estinal tract and abd	ominal pain. May cause
Effects of chronic overexposure:				
Prolonged exposure may lead to kid	dney, lung, heart	and liver damage.		
Carcinogenicity OSHA regulated: No	•	ACGIH: No	National Toxicolo	gy Program: No
International Agenc	y for Research on	Cancer: No		
Other effects:  Developmental toxicity observed in	animal tests with	MMA at levels toxic	to the mother.	
4. FIRST AID MEASURES First aid for eyes: Flush eye with clean water for at le	ast 15 minutes w	hile gently holding e	eyelids open. Get im	mediate medical attention.
First aid for skin: Immediately remove contaminated warm soap and water. Consult a p	-		lush skin with water.	Wash thoroughly with
First aid for inhalation: Remove patient to fresh air. Admir	nister oxygen if br	reathing is difficult.	Get medical attention	n if symptoms persist.
First aid for ingestion:  Do NOT induce vomiting. Give two	glasses of water	to dilute if patient is	s conscious. Get me	edical attention.
5. FIRE FIGHTING MEASURES	8			
General fire and explosion character Vapor forms explosive mixture with				
Extinguishing media:  Water  Carbor	n dioxide	Dry chemical	Foam	Alcohol foam
Flash Point (°F): 50	Method: TCC			
Explosive limits in air (percent) L	.ower: 2.1	<b>Upper:</b> 12.5		
Special firefighting procedures: Keep personnel removed and upwir Cool tank with water spray. Fight fi				full protective equipment.

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#### Unusual fire and explosion hazards:

Sealed containers at elevated temperatures may rupture due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back.

# Hazardous products of combustion:

Carbon monoxide, carbon dioxide, fumaric acid, maleic anhydride fumes, and smoke.

#### 6. ACCIDENTAL RELEASE MEASURES

### Spill control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

#### Containment:

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

#### Cleanup:

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste). Add inhibitor to prevent polymerization.

#### Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

#### 7. HANDLING AND STORAGE

#### Handling precautions:

Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Close container after each use. Ground container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools.

#### Storage:

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

#### Ventilation:

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

### Other engineering controls:

Keep container tightly closed. Observe label precautions. Have emergency eye wash and safety shower present.

# Personal protective equipment

#### Eye and face protection:

Wear safety glasses. Wear coverall chemical splash goggles and face shield when eye and face contact is possible.

#### Skin protection:

Wear impervious butyl rubber clothing as appropriate to prevent contact.

#### Respiratory protection:

A NIOSH/MSHA air purifying respirator with an organic vapor cartridge may be permissible, however use a positive pressure air supplied respirator if there is any potential for uncontrolled release, or unknown exposure levels.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity: 0.93-1.05 Boiling point (°F): 213

-54 Vapor density (air = 1): 3.5 Melting point (°F):

28 mm Hg at 68 °F Vapor pressure (mmHg): Evaporation rate (butyl acetate = 1): 3 VOC (grams/liter): < 50 mixed Solubility in water:

Percent volatile by volume: n/d pH (5% solution or slurry in water):

Percent solids by weight: n/d

# 10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization may occur.

#### Conditions to avoid:

Unstable with heat, direct sunlight, inert gas blanketing, ultrviolet radiation.

#### Incompatible materials:

Incompatible with strong oxidizing agents and reducing agents, metals, amines. Material is a strong solvent and can soften paint and rubber

#### Hazardous products of decomposition:

Carbon monoxide, carbon dioxide, fumaric acid, maleic anhydride fumes, and smoke.

# Conditions under which hazardous polymerization may occur:

Excessive heat, storage in the absence of inhibitor and inadvertant addition of catalyst.

# 11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): > 2000 mg/kg (estimate)

Toxicity of MMA exposed near LD50 include blood in the urine and liver changes.

Acute dermal effects: LD50 (rabbit): > 3000 mg/kg (estimate)

Dermatitis. Maleic acid is a skin and mucous membrane irritant.

Acute inhalation effects: LC50 (rat): Not available.

Exposure: 4 hours.

Toxicity of MMA at 8-100 times TLV from respiratory and gastrointestional irritation, lung damage, nervous system effects and blood in urine.

# Eve irritation:

Maleic acid is a severe eye irritant.

#### Subchronic effects:

Inhalation: Repeated exposure of MMA at 5-100 times the TLV include lung damage, pulmonary irritation, liver changes, eye irritation, nasal tissue changes, incoordination and upper respiratory irritation. Ingestion: Liver and kidney affects with altered function in both organs. Skin permeation may occur.

#### Carcinogenicity, teratogenicity, and mutagenicity:

Possible reproductive hazard based on animal data.

#### Other chronic effects:

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Inhalation: long term exposure of MMA caused inflammation of the nasal cavity, changes in nasal sensory cells and decreased body weight. Ingestion: Can cause decreased body weight, and increased kidney weight

# Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
Maleic acid	708 mg/kg	1560 mg/kg	n/d
2,6-Di-tertiary-butyl-para-cresol	890 mg/kg	n/d	n/d
Methyl Methacrylate Monomer	7872 mg/kg	> 5000 mg/kg	7093 ppm

'n/d' = 'not determined'

# 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity:**

MMA has: estimate of 96 hour median threshold limit: 100-1,000 ppm; 96 hour LC50, fathead minnow: 150 ppm; 96 hour LC50, bluegill sunfish: 232 ppm

# Mobility and persistence:

MMA is partially biodegradable in water. BOD-5 day: 0.14 g/g - 0.90 g/g; THOD: 1.92 g/g

#### **Environmental fate:**

MMA produces high tonnage material in wholly contained systems. Liquid with moderate mobility. Sparingly soluble in water. High potential for bioaccumulation. Low mobility in soil.

# 13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

#### Waste management recommendations:

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

# 14. TRANSPORT INFORMATION

Proper shipping name: Adhesives \*

Technical name: N/A
Hazard class: 3
UN number: 1133
Packing group: II

Emergency Response Guide no.: 128

IMDG page number: 3174

Other: Containers < 30 liters are PG III

\*Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate regulation.

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# 15. REGULATORY INFORMATION

# **U.S. Federal Regulations**

#### TSCA:

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

# The following RCRA code(s) applies to this material if it becomes waste:

D001, D019

# Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Maleic acid	No	No	0.0	Not required
2,6-Di-tertiary-butyl-para-cresol	No	No	0.0	Not required
Methyl Methacrylate Monomer	No	Yes	1000.0	Required

<sup>\*</sup>Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

# For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard

classes apply to this material: - Immediate health hazard -- Delayed health hazard -- Fire hazard --

Reactivity hazard -

**Canadian regulations** 

WHMIS hazard class(es): B2; D2B

# **Regulatory notes:**

In normal use, the methyl methacrylate in this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. MMA) emitted is negligible (less than 5 %). Actual emissions are a function of substrate and process and should be considered on an individual basis.

# 16. OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:	Health 2*	Flammability 3	Reactivity 2	
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The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.

<sup>\*\*</sup>Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of

Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.