

**KIT - SAFETY DATA SHEET**Product identifier used on the label:

Kit Name: **MA560-1 White 400ml 1:1 Twin Cartridge**  
Stock No.: 56500

Other means of identification:Recommended use of the chemical and restrictions on use:Chemical manufacturer address and telephone number:

Manufacturer Name: ITW Performance Polymers  
Address: 30 Endicott Street  
Danvers, MA 01923

**Component list**

Component A	MA560-1 ADHESIVE
Component B	MA560-1 WHITE ACTIVATOR
Kit SDS Revision Date	08/24/2015

**Component A - SDS****SECTION 1 : IDENTIFICATION**Product identifier used on the label:

Product Name: **MA560-1 ADHESIVE**

Other means of identification:

Synonyms: None.

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Not applicable.

Chemical manufacturer address and telephone number:

Manufacturer Name: ITW Performance Polymers  
Address: 30 Endicott Street  
Danvers, MA 01923  
General Phone Number: (978) 777-1100

Emergency phone number:

Emergency Phone Number: (800) 424-9300  
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

**SECTION 2 : HAZARD(S) IDENTIFICATION**Classification of the chemical in accordance with CFR 1910.1200(d)(f):

## GHS Pictograms:



Signal Word: DANGER.

GHS Class: Flammable Liquid. Category 2.  
Eye Irritation. Category 2.  
Skin Irritation. Category 2.  
Skin Sensitization. category 1.  
Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements: H225 - Highly flammable liquid and vapor.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.

**Precautionary Statements:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 - Specific treatment (see ... on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

**Hazards not otherwise classified that have been identified during the classification process:**

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Potential Health Effects:**

**Eye:** Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

**Skin:** Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

**Inhalation:** Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

**Ingestion:** Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Chronic Health Effects:** Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

**Signs/Symptoms:** Overexposure can cause headaches, dizziness, nausea, and vomiting.

**Target Organs:** Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.

**Aggravation of Pre-Existing Conditions:** Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures:**

<b>Chemical Name</b>	<b>CAS#</b>	<b>Ingredient Percent</b>	<b>EC Num.</b>
2-Propenoic acid, 2-methyl-, dodecyl ester	142-90-5	1 - 10 by weight	
2-Propenoic acid, 2-methyl-, polymer with 2-chloro-1,3-butadiene	25053-30-9	1 - 10 by weight	
Methyl Methacrylate Monomer	80-62-6	40 - 50 by weight	
Poly(ethylene glycol) methyl ether methacrylate	26915-72-0	1 - 10 by weight	
Proprietary ingredient(s)	Trade Secret	20 - 30 by weight	
2-Propenoic acid, 2-methyl-, tetradecyl ester	2549-53-3	1 - 10 by weight	
Chlorosulfonated polyethylene	68037-39-8	1 - 10 by weight	
Non hazardous	64742-43-4	1 - 10 by weight	
2-Propenoic acid, 2-methyl-, hexadecyl ester	2495-27-4	1 - 10 by weight	
Maleic acid	110-16-7	0.1 - 1.0 by weight	

**SECTION 4 : FIRST AID MEASURES**

**Description of necessary measures:**

<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
<b>Skin Contact:</b>	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## SECTION 5 : FIRE FIGHTING MEASURES

### Suitable and unsuitable extinguishing media:

<b>Suitable Extinguishing Media:</b>	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
<b>Unsuitable extinguishing media:</b>	Water may cause frothing.
<b>Unusual Fire Hazards:</b>	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

### Special protective equipment and precautions for fire-fighters:

<b>Protective Equipment:</b>	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire Fighting Instructions:</b>	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water. Vapors can flow along surfaces to distant ignition sources and flash back.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

<b>Personal Precautions:</b>	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
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### Environmental precautions:

<b>Environmental Precautions:</b>	Avoid runoff into storm sewers, ditches, and waterways.
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### Methods and materials for containment and cleaning up:

<b>Spill Cleanup Measures:</b>	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in Section 8.
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### Reference to other sections:

<b>Other Precautions:</b>	Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.
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## SECTION 7 : HANDLING and STORAGE

### Precautions for safe handling:

<b>Handling:</b>	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
<b>Hygiene Practices:</b>	Wash thoroughly after handling.
<b>Special Handling Procedures:</b>	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

### Conditions for safe storage, including any incompatibilities:

<b>Storage:</b>	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.
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## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### Methyl Methacrylate Monomer :

<b>Guideline ACGIH:</b>	TLV-STEL: 100 ppm TLV-TWA: 50 ppm Sensitizer.
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Guideline OSHA: PEL-TWA: 100 ppm

Appropriate engineering controls:

**Engineering Controls:** Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

**Eye/Face Protection:** Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

**Skin Protection Description:** Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

**Respiratory Protection:** A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**Other Protective:** Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

**Notes :** Only established PEL and TLV values for the ingredients are listed.

## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

**Physical State Appearance:** Paste.

**Color:** off-white.

**Odor:** Fragrant.

**Boiling Point:** 213°F (100.5°C)

**Melting Point:** -54°F (-47.7°C)

**Specific Gravity:** 0.93-1.05

**Solubility:** Not determined.

**Vapor Density:** 3.5 (air = 1)

**Vapor Pressure:** 28 mmHg @68°F

**Percent Volatile:** Not determined.

**Evaporation Rate:** 3 (butyl acetate = 1)

**Molecular Formula:** Mixture

**Molecular Weight:** Mixture

**Flash Point:** 50°F (10°C)

**Flash Point Method:** Tag closed cup. (TCC)

**Lower Flammable/Explosive Limit:** 2.1%

**Upper Flammable/Explosive Limit:** 12.5%

**Auto Ignition Temperature:** Not determined.

**VOC Content:** <50 g/L mixed.

9.2. Other information:

**Percent Solids by Weight** Not determined.

## SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

**Chemical Stability:** Unstable.

Possibility of hazardous reactions:

**Hazardous Polymerization:** Polymerization may occur under certain conditions.

Conditions To Avoid:

**Conditions to Avoid:** Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

Incompatible Materials:

**Incompatible Materials:** Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

#### 2-Propenoic acid, 2-methyl-, dodecyl ester :

**Eye:** Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS)

#### Methyl Methacrylate Monomer :

**Eye:** Administration into the eye - Rabbit Standard Draize test: 150 mg [Not reported.] (RTECS)

**Skin:** Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >5 gm/kg [Skin and Appendages - Dermatitis, other(After systemic exposure) ] (RTECS)

**Inhalation:** Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m<sup>3</sup>/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Ingestion:** Oral - Rat LD50 - Lethal dose, 50 percent kill: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

#### Maleic acid :

**Eye:** Administration into the eye - Rabbit Standard Draize test: 1 %/2M [Severe] (RTECS)

## SECTION 12 : ECOLOGICAL INFORMATION

### Ecotoxicity:

**Ecotoxicity:** No ecotoxicity data was found for the product.

**Environmental Fate:** No environmental information found for this product.

## SECTION 13 : DISPOSAL CONSIDERATIONS

### Description of waste:

**Waste Disposal:** Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

**RCRA Number:** D001

**Important Disposal Information:** DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

## SECTION 14 : TRANSPORT INFORMATION

**DOT Shipping Name:** Refer to Bill of Lading

**DOT UN Number:** Refer to Bill of Lading

**IATA Shipping Name:** Refer to Bill of Lading

**IATA UN Number:** Refer to Bill of Lading

**IMDG UN Number :** Refer to Bill of Lading

**IMDG Shipping Name :** Refer to Bill of Lading

## SECTION 15 : REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the product:

#### 2-Propenoic acid, 2-methyl-, dodecyl ester :

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

#### 2-Propenoic acid, 2-methyl-, polymer with 2-chloro-1,3-butadiene :

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

#### Methyl Methacrylate Monomer :

**TSCA Inventory Status:** Listed

**Section 313:** EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

**Canada DSL:** Listed

**Poly(ethylene glycol) methyl ether methacrylate :**

TSCA Inventory Status: Listed

**2-Propenoic acid, 2-methyl-, tetradecyl ester :**

TSCA Inventory Status: Listed

Canada DSL: Listed

**Chlorosulfonated polyethylene :**

TSCA Inventory Status: Listed

Canada DSL: Listed

**Non hazardous :**

TSCA Inventory Status: Listed

Canada DSL: Listed

**2-Propenoic acid, 2-methyl-, hexadecyl ester :**

TSCA Inventory Status: Listed

Canada DSL: Listed

**Maleic acid :**

TSCA Inventory Status: Listed

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): B2; D2B  
All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms:



**SECTION 16 : ADDITIONAL INFORMATION**

**HMIS Ratings:**

HMIS Health Hazard: 2\*  
HMIS Fire Hazard: 3  
HMIS Reactivity: 2  
HMIS Personal Protection: X

<b>Health Hazard</b>	<b>2*</b>
<b>Fire Hazard</b>	<b>3</b>
<b>Reactivity</b>	<b>2</b>
<b>Personal Protection</b>	<b>X</b>

\* Chronic Health Effects

SDS Revision Date: May 25, 2015

SDS Revision Notes: GHS Update

SDS Author: Actio Corporation

**Disclaimer:** This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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# Component B - SDS

## SECTION 1 : IDENTIFICATION

Product identifier used on the label:

**Product Name:** MA560-1 WHITE ACTIVATOR

Other means of identification:

**Synonyms:** None.

Recommended use of the chemical and restrictions on use:

**Product Use/Restriction:** Not applicable.

Chemical manufacturer address and telephone number:

**Manufacturer Name:** ITW  
**Address:** 30 Endicott Street  
Danvers, MA 01923  
**General Phone Number:** (978) 777-1100

Emergency phone number:

**Emergency Phone Number:** (800) 424-9300  
**CHEMTREC:** For emergencies in the US, call CHEMTREC: 800-424-9300

## SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

**GHS Pictograms:**



**Signal Word:**

DANGER.

**GHS Class:**

Flammable Liquid, Category 2.  
Skin Irritation, Category 2.  
Skin Sensitization, category 1.  
Specific Target Organ Toxicity - STOT, Single Exposure SE, Category 3.

**Hazard Statements:**

H225 - Highly flammable liquid and vapor.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.

**Precautionary Statements:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 - Specific treatment (see ... on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Potential Health Effects:**

**Eye:** Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

**Skin:** Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

**Inhalation:** Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

**Ingestion:** Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Chronic Health Effects:** Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

**Signs/Symptoms:** Overexposure can cause headaches, dizziness, nausea, and vomiting.

**Target Organs:** Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.

**Aggravation of Pre-Existing Conditions:** Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

Mixtures:

<b>Chemical Name</b>	<b>CAS#</b>	<b>Ingredient Percent</b>	<b>EC Num.</b>
Texanol Benzyl Phthalate	16883-83-3	1 - 10 by weight	
Methyl Methacrylate Monomer	80-62-6	50 - 60 by weight	
Titanium dioxide	13463-67-7	1 - 10 by weight	
Proprietary ingredient(s)	Trade Secret	20 - 30 by weight	
Phenol, 2,4-bis(1,1,-dimethylethyl)-, phosphite	31570-04-4	0.1 - 1.0 by weight	
Non hazardous	64742-43-4	0.1 - 1.0 by weight	

**SECTION 4 : FIRST AID MEASURES**

Description of necessary measures:

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.



## SECTION 5 : FIRE FIGHTING MEASURES

### Suitable and unsuitable extinguishing media:

- Suitable Extinguishing Media:** Use carbon dioxide (CO<sub>2</sub>) or dry chemical when fighting fires involving this material.
- Unsuitable extinguishing media:** Water may cause frothing.
- Unusual Fire Hazards:** Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

### Special protective equipment and precautions for fire-fighters:

- Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
- Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water. Vapors can flow along surfaces to distant ignition sources and flash back.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

- Personal Precautions:** Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

### Environmental precautions:

- Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways.

### Methods and materials for containment and cleaning up:

- Spill Cleanup Measures:** Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in Section 8.

### Reference to other sections:

- Other Precautions:** Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

## SECTION 7 : HANDLING and STORAGE

### Precautions for safe handling:

- Handling:** Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
- Hygiene Practices:** Wash thoroughly after handling.
- Special Handling Procedures:** Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

### Conditions for safe storage, including any incompatibilities:

- Storage:** Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### **Methyl Methacrylate Monomer :**

**Guideline ACGIH:** TLV-STEL: 100 ppm  
TLV-TWA: 50 ppm  
Sensitizer.

**Guideline OSHA:** PEL-TWA: 100 ppm

#### **Titanium dioxide :**

**Guideline ACGIH:** TLV-TWA: 10 mg/m<sup>3</sup>

### Appropriate engineering controls:

- Engineering Controls:** Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

### Individual protection measures:

<b>Eye/Face Protection:</b>	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
<b>Skin Protection Description:</b>	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
<b>Respiratory Protection:</b>	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
<b>Other Protective:</b>	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.
<b>Notes :</b>	Only established PEL and TLV values for the ingredients are listed.

## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

### PHYSICAL AND CHEMICAL PROPERTIES:

<b>Physical State Appearance:</b>	Paste..
<b>Color:</b>	White.
<b>Odor:</b>	Fragrant.
<b>Boiling Point:</b>	>200°F (93.3°C)
<b>Melting Point:</b>	-54°F (-47.7°C)
<b>Specific Gravity:</b>	0.99
<b>Solubility:</b>	Not determined.
<b>Vapor Density:</b>	> 1 (air = 1)
<b>Vapor Pressure:</b>	28 mmHg @68°F
<b>Percent Volatile:</b>	Not determined.
<b>Evaporation Rate:</b>	3 (butyl acetate = 1)
<b>pH:</b>	Not determined.
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>Flash Point:</b>	50°F (10°C)
<b>Flash Point Method:</b>	Tag closed cup. (TCC)
<b>Lower Flammable/Explosive Limit:</b>	1.7%
<b>Upper Flammable/Explosive Limit:</b>	12.5%
<b>Auto Ignition Temperature:</b>	789°F
<b>VOC Content:</b>	<50 g/L mixed.
<b><u>9.2. Other information:</u></b>	
<b>Percent Solids by Weight</b>	Not determined.

## SECTION 10 : STABILITY and REACTIVITY

### Chemical Stability:

**Chemical Stability:** Unstable.

### Possibility of hazardous reactions:

**Hazardous Polymerization:** Polymerization may occur under certain conditions.

### Conditions To Avoid:

**Conditions to Avoid:** Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

### Incompatible Materials:

**Incompatible Materials:** Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

#### Methyl Methacrylate Monomer :

**Eye:** Administration into the eye - Rabbit Standard Draize test: 150 mg [Not reported.] (RTECS)

**Skin:** Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >5 gm/kg [Skin and Appendages - Dermatitis, other(After systemic exposure) ] (RTECS)

**Inhalation:** Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Ingestion:** Oral - Rat LD50 - Lethal dose, 50 percent kill: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

**Titanium dioxide :**

**Chronic Effects:** Normal application procedures for this product pose minimal hazard as to the release of respirable titanium dioxide dust, but grinding or sanding dried films of this product may yield some respirable titanium dioxide. Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials". OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey the fact that titanium dioxide is a potential carcinogen to rats.

**Carcinogenicity:** Animal evidence shows that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation.

**Phenol, 2,4-bis(1,1-dimethylethyl)-, phosphite :**

**Skin:** Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >2000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**Ingestion:** Oral - Rat LD50 - Lethal dose, 50 percent kill: >6000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

**SECTION 12 : ECOLOGICAL INFORMATION**

**Ecotoxicity:**

**Ecotoxicity:** No ecotoxicity data was found for the product.

**Environmental Fate:** No environmental information found for this product.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**Description of waste:**

**Waste Disposal:** Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

**RCRA Number:** D001

**Important Disposal Information:** DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

**SECTION 14 : TRANSPORT INFORMATION**

**DOT Shipping Name:** Refer to Bill of Lading

**DOT UN Number:** Refer to Bill of Lading

**IATA Shipping Name:** Refer to Bill of Lading

**IATA UN Number:** Refer to Bill of Lading

**IMDG UN Number :** Refer to Bill of Lading

**IMDG Shipping Name :** Refer to Bill of Lading

**SECTION 15 : REGULATORY INFORMATION**

**Safety, health and environmental regulations specific for the product:**

**Texanol Benzyl Phthalate :**

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**Methyl Methacrylate Monomer :**

**TSCA Inventory Status:** Listed

**Section 313:** EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

**Canada DSL:** Listed

**Titanium dioxide :**

**TSCA Inventory Status:** Listed

Canada DSL: Listed

**Phenol, 2,4-bis(1,1-dimethylethyl)-, phosphite :**

TSCA Inventory Status: Listed

Canada DSL: Listed

**Non hazardous :**

TSCA Inventory Status: Listed

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): B2; D2B  
All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms:



**SECTION 16 : ADDITIONAL INFORMATION**

**HMIS Ratings:**

HMIS Health Hazard: 2\*  
HMIS Fire Hazard: 3  
HMIS Reactivity: 2  
HMIS Personal Protection: X

<b>Health Hazard</b>	<b>2*</b>
<b>Fire Hazard</b>	<b>3</b>
<b>Reactivity</b>	<b>2</b>
<b>Personal Protection</b>	<b>X</b>

\* Chronic Health Effects

SDS Revision Date: May 19, 2015

SDS Revision Notes: GHS Update

SDS Author: Actio Corporation

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