

# **KIT - SAFETY DATA SHEET**

Product identifier used on the

Kit Name **DEVCON®** Zip Patch™

Stock No.: 11500

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: ITW Polymers Adhesives, North America

30 Endicott Street Danvers, MA 01923

Component list				
Component B	FLEX-BOND PIPE SEALANTACTIVATOR			
Component A	ZIP PATCH ADHESIVE			
Kit SDS Revision Date	08/10/2015			

# **Component B - SDS**

#### SECTION 1: IDENTIFICATION

Product identifier used on the label:

Product Name: FLEX-BOND PIPE SEALANT ACTIVATOR

Other means of identification:

Synonyms: None.

Recommended use of the chemical and restrictions on use: Product Use/Restriction: Not applicable.

 $\underline{\hbox{Chemical manufacturer address and telephone number:}}\\$ 

Manufacturer Name: ITW

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

Emergency phone number:

(800) 424-9300 Emergency Phone Number:

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. Germ cell mutagenicity. 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. H341 - Suspected of causing genetic defects.

H319 - Causes serious eye irritation. H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hotsurfaces. — 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. 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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
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:

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

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are

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

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

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Methyl Methacrylate Monomer	80-62-6	80 - 90 by weight	
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	34562-31-7	10 - 20 by weight	

## SECTION 4: FIRST AID MEASURES

#### Description of necessary measures:

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. Eye Contact:

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

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

### SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use carbon dioxide (CO2) 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:

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) Protective Equipment:

and full protective gear.

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, Fire Fighting Instructions:

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:

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Spill Cleanup Measures:

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

Appropriate engineering controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other **Engineering Controls:** 

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.

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be Respiratory Protection:

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

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

#### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

#### PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Odor: Fragrant.

Boiling Point: 213°F (100.5°C) Melting Point: Not determined.

Specific Gravity: 0.96

Solubility: Not determined. 3.5 (air = 1) Vapor Density: Vapor Pressure: 28 mmHq @68°F Percent Volatile: Not determined. Evaporation Rate: 3 (butyl acetate = 1)

4.5-5.5 @ 5 Percent Solution

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:

# Methyl Methacrylate Monomer:

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

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

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

# 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

quidelines.

RCRA Number:

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 Refer to Bill of Lading IMDG Shipping Name:

#### SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

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

TSCA Inventory Status:

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

Canada DSL: Listed

#### 3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

TSCA Inventory Status: Listed Canada DSI: Listed

WHMIS Hazard Class(es): B2: D2B Canadian Regulations.

All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms:





# SECTION 16: ADDITIONAL INFORMATION

# **HMIS Ratings**:

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

Health Hazard	2*
Fire Hazard	3
Reactivity	2
Personal Protection	х

<sup>\*</sup> Chronic Health Effects

SDS Revision Date: January 30, 2015 MSDS Revision Notes: GHS Update

In accordance to OSHA GHS 1910.1200 SDS Format:

MSDS Author: Actio Corporation

Disclaimer:

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# **Component A - SDS**

#### SECTION 1: IDENTIFICATION

Product identifier used on the label:

ZTP PATCH ADHESTVE Product Name:

Other means of identification:

Synonyms: None.

Recommended use of the chemical and restrictions on use: Product Use/Restriction:

Chemical manufacturer address and telephone number:

Manufacturer Name: ITW

30 Endicott Street Danvers, MA 01923 Address: 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.

Serious Eye Damage. Category 1. Skin corrosion. Category 1. Carcinogenicity. Category 2. Skin Sensitization. Category 1.

Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements: H225 - Highly flammable liquid and vapor.

H318 - Causes serious eye damage. H314 - Causes severe skin burns and eye damage.

H351 - Suspected of causing cancer. H317 - May cause an allergic skin reaction.

H335 - May cause respiratory irritation

Precautionary Statements: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hotsurfaces. — No smoking

P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
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.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water.

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.

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.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor/physician.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P321 - Specific treatment (see ... on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing 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:

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

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are

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

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

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:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Methacrylic acid	79-41-4	1 - 10 by weight	
Methyl Methacrylate Monomer	80-62-6	50 - 60 by weight	
Chlorosulfonated polyethylene	68037-39-8	20 - 30 by weight	
Proprietary ingredient(s)	Trade Secret	10 - 20 by weight	
Magnesium silicate hydrate	14807-96-6	0.1 - 1.0 by weight	
Carbon tetrachloride	56-23-5	0.1 - 1.0 by weight	

#### SECTION 4: FIRST AID MEASURES

### Description of necessary measures:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of Eye Contact:

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.

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained Inhalation:

personnel. Seek immediate medical attention.

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

# SECTION 5: FIRE FIGHTING MEASURES

# Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use carbon dioxide (CO2) 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

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

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) Protective Equipment:

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, Fire Fighting Instructions:

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:

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 Handling:

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:

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:**

Methacrylic acid:

Guideline ACGIH: TLV-TWA: 20 ppm

**Methyl Methacrylate Monomer:** 

Guideline ACGIH: TLV-STEL: 100 ppm

TLV-TWA: 50 ppm Sensitizer.

Guideline OSHA: PEL-TWA: 100 ppm

Magnesium silicate hydrate:

TLV-TWA: 1 mg/m3 Respirable fraction (R) Guideline ACGIH:

Guideline OSHA: PEL-TWA: 20 mppcf

Carbon tetrachloride:

Skin: Yes. TLV-STEL: 10 ppm Guideline ACGIH:

TLV-TWA: 5 ppm

Guideline OSHA: PEL-TWA: 10 ppm PEL-Ceiling/Peak: 200 ppm Peak

PEL-Ceiling/Peak: 25 ppm

Appropriate 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 **Engineering Controls:** 

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:

Eve/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.

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 Respiratory Protection:

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: Color: off-white. 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: > 1 (air = 1) Vapor Pressure: 28 mmHg @68°F

Evaporation Rate: 3 (butyl acetate = 1)

Molecular Formula: Mixture Molecular Weight: Mixture 50°F (10°C) Flash Point:

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 Volatile:

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.

Not determined.

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 Conditions to Avoid:

rubber.

Incompatible Materials:

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

# SECTION 11: TOXICOLOGICAL INFORMATION

# TOXICOLOGICAL INFORMATION:

Methyl Methacrylate Monomer:

Methacrylic acid:

Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 500 mg/kg [Details of toxic Skin:

effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 1060 mg/kg [Details of toxic effects not reported other

than lethal dose value] (RTECS)

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

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 - Rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m3/4H [Details of toxic effects Inhalation:

not reported other than lethal dose value] (RTECS)

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

Carbon tetrachloride:

Administration into the eye - Rabbit Standard Draize test: 2200 ug/30S [Mild] Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS) Eye:

Skin: Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 5070 mg/kg [Details of toxic

Administration onto the skin - Rabbit LDSO - Lethal dose, 50 percent kill: >20 gm/kg [Details of toxic

effects not reported other than lethal dose value] (RTECS)

Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 8000 ppm/4H [Details of toxic effects not

reported other than lethal dose value] Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: 46000 mg/m3/6H [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 2350 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:

DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly Important Disposal Information:

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:

Methacrylic acid:

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

Chlorosulfonated polyethylene:

TSCA Inventory Status: Listed Canada DSL: Listed

Magnesium silicate hydrate:

TSCA Inventory Status: Listed Canada DSL: Listed

Carbon tetrachloride:

TSCA Inventory Status: Listed

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

California PROP 65: Listed: cancer.

Canada DSI:

Canadian Regulations.

WHMIS Hazard Class(es): B2; D2B; D2A 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: Х



<sup>\*</sup> Chronic Health Effects

SDS Revision Date: May 25, 2015
MSDS Revision Notes: GHS Update

SDS Format: In accordance to OSHA GHS 1910.1200

MSDS Author: Actio Corporation

Disclaimer: The informatio

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