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MSDS Name **MA 832 GRAY GB**
Manufacturer Name ITW Plexus
Stock No.: IT331
Kit MSDS Revision Date 9/21/2012

Components	
	MA830/ MA832/ MA833 GB GRAY ACTIVATOR
	MA832 ADHESIVE
ITW Plexus Product Code : IT331	

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **MA 830/ MA 832/ MA 833 GB GRAY ACTIVATOR**
Manufacturer Name: ITW Plexus
Address: 30 Endicott Street
Danvers, MA 01923
General Phone Number: (978) 777-1100
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
MSDS Revision Date: 06/30/2012

HMIS	
Health Hazard	2*
Fire Hazard	2
Reactivity	2
Personal Protection	X

* Chronic Health Effects

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Non-hazardous ingredients.	N/A	5 - 10 by weight
Benzoyl peroxide	94-36-0	10 - 30 by weight
Non-hazardous	N/A	1 - 5 by weight
Bisphenol A diglycidyl ether resin	25068-38-6	10 - 30 by weight
Trade secret.	N/A	10 - 30 by weight
Non-hazardous	N/A	10 - 30 by weight
Butyl benzyl phthalate	85-68-7	10 - 30 by weight
Titanium dioxide	13463-67-7	1 - 5 by weight
Diisodecyl phthalate	26761-40-0	1 - 5 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Potential Sensitizer. Irritant.
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. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
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.

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 4 - FIRST AID 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

Flammable Properties:	Decomposition products can be Flammable. Self accelerating decomposition temperature is 129 F (estimated).
Flash Point:	Not determined.
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
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.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Unsuitable Media:	Water or foam may cause frothing.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Organic peroxides can decompose violently if heated strongly while confined. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in temperatures above 100 °F.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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.
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

Other Protective: circumstances where air purifying respirators may not provide adequate protection.
Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Benzoyl peroxide:

Guideline ACGIH: 5 mg/m³
TLV-TWA: 5 mg/m³
Guideline OSHA: 5 mg/m³
PEL-TWA: 5 mg/m³

Titanium dioxide:

Guideline ACGIH: 10 mg/m³
TLV-TWA: 10 mg/m³

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

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Viscous. Liquid..
Color: Gray.
Odor: slight odor
Boiling Point: Not determined.
Melting Point: Not determined.
Specific Gravity: 1.06
Solubility: slightly soluble.
Vapor Density: Not determined.
Vapor Pressure: Not determined.
Percent Volatile: Not determined.
Evaporation Rate: <<1 (butyl acetate = 1)
pH: Neutral.
Molecular Formula: Mixture
Molecular Weight: Mixture
Flash Point: Not determined.
Auto Ignition Temperature: Not determined.
VOC Content: <50 g/L mixed.
Percent Solids by Weight: Not determined.

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability: Unstable.
Hazardous Polymerization: Not reported.
Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Contamination, direct sunlight, friction and prolonged storage above 100°F (38°C).
Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Benzoyl peroxide:

RTECS Number: DM8575000
Eye: Eye - Rabbit Standard Draize test.: 500 mg/24H
Skin: Administration onto the skin - : >1 gm/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Mouse : 121120 ug/kg/4W (Intermittent)
[Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation]
Administration onto the skin - Mouse : 242 mg/kg/4W (Intermittent)
Administration onto the skin - Human : 5 %/48H
Administration onto the skin - Human : 5 %
Administration onto the skin - Human : 5 %/8W (Intermittent)
Administration onto the skin - Mouse : 24 gm/kg/30W (Intermittent)
[Tumorigenic - equivocal Tumorigenic agent by RTECS criteria Skin and Appendages - Tumors]
Administration onto the skin - Mouse : 64000 mg/kg/40W (Intermittent)
[Tumorigenic - carcinogenic by RTECS criteria Skin and Appendages - Tumors Tumorigenic - Facilitates action of known carcinogen]
Administration onto the skin - Mouse : 28800 mg/kg/18W (Intermittent)
[Tumorigenic - carcinogenic by RTECS criteria Skin and Appendages - Tumors Tumorigenic - Facilitates action of known carcinogen]
Ingestion: Oral - Rat LD50: 7710 mg/kg [Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition]
Oral - Mouse LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value]

Bisphenol A diglycidyl ether resin:

RTECS Number: SL6480000
Skin: Administration onto the skin - Rat LD : >2 gm/kg [Nutritional and Gross Metabolic - Other changes]

Butyl benzyl phthalate:

RTECS Number: TH9990000
Skin: Administration onto the skin - Rat : 6700 mg/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Mouse : 6700 mg/kg [Details of toxic

	effects not reported other than lethal dose value] Administration onto the skin - Rabbit : >10000 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Mouse : 60000 uL/kg/19D (Continuous) [Immunological Including Allergic - Increase in humoral immune response] Administration onto the skin - Human : 10 %
Ingestion:	Oral - Rat LD50: 2330 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50: 4170 mg/kg [Details of toxic effects not reported other than lethal dose value]
<u>Titanium dioxide:</u>	
RECS Number:	XR2275000
Skin:	Administration onto the skin - Human : 300 ug/3D (Intermittent)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans.
<u>Diisodecyl phthalate:</u>	
RECS Number:	TI1270000
Skin:	Administration onto the skin - Rabbit : >3160 mg/kg [Details of toxic effects not reported other than lethal dose value]
Ingestion:	Oral - Rat LD50: 64 gm/kg [Details of toxic effects not reported other than lethal dose value]

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

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:	None.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Environmentally hazardous substances, liquid, n.o.s.
DOT UN Number:	3082
DOT Hazard Class:	9
DOT Packing Group:	III
IATA Shipping Name:	Non regulated.

SECTION 15 - REGULATORY INFORMATION

<u>Benzoyl peroxide :</u>	
TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 0215
Massachusetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
<u>Bisphenol A diglycidyl ether resin :</u>	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
<u>Butyl benzyl phthalate :</u>	
TSCA Inventory Status:	Listed
California PROP 65:	Listed: developmental
New Jersey:	Listed: NJ Hazardous List; Substance Number: 2896
Massachusetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
<u>Titanium dioxide :</u>	
TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed
<u>Diisodecyl phthalate :</u>	
TSCA Inventory Status:	Listed
California PROP 65:	Listed: developmental
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): D2B All components of this product are on the Canadian Domestic Substances List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: 2
HMIS Health Hazard: 2*
HMIS Reactivity: 2
HMIS Personal Protection: X
MSDS Revision Date: 06/30/2012
MSDS 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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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **MA832 ADHESIVE**
Manufacturer Name: ITW Plexus
Address: 30 Endicott Street
Danvers, MA 01923
General Phone Number: (978) 777-1100
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
MSDS Revision Date: 9/21/2012

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

* Chronic Health Effects

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Methyl Methacrylate Monomer	80-62-6	30 - 60 by weight
2-chloro-1,3 butadiene	9010-98-4	5 - 10 by weight
Methacrylic acid	79-41-4	1 - 5 by weight
Trade secret.	N/A	10 - 30 by weight
Non-hazardous ingredients.	N/A	1 - 5 by weight
Methacryloxyethyl acid phosphate	52628-03-2	1 - 5 by weight
Paraffin wax	64742-43-4	1 - 5 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Flammable. Harmful. Skin Sensitizer. Irritant.
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. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
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 4 - FIRST AID 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.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Flammable. Fine mists explosive below flash point.
Flash Point:	50°F (10°C)
Flash Point Method:	Tag Closed Cup (TCC)
Auto Ignition Temperature:	789°F
Lower Flammable/Explosive Limit:	1.7%
Upper Flammable/Explosive Limit:	12.5%
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.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Unsuitable Media:	Water may cause frothing.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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.
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Other Precautions:	Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

SECTION 7 - HANDLING and STORAGE

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.
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.
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.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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.
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.

EXPOSURE GUIDELINES

Methyl Methacrylate Monomer:

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

Guideline OSHA: 100 ppm
PEL-TWA: 100 ppm

Methacrylic acid:

Guideline ACGIH: 20 ppm
TLV-TWA: 20 ppm

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

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste..

Color: off-white.

Odor: Fragrant.

Boiling Point: >200°F (93.3°C)

Melting Point: -54°F (-47.7°C)

Specific Gravity: 0.99

Solubility: Not determined.

Vapor Density: > 1 (air = 1)

Vapor Pressure: 28 mmHg @68°F

Percent Volatile: Not determined.

Evaporation Rate: 3 (butyl acetate = 1)

pH: Not determined.

Molecular Formula: Mixture

Molecular Weight: Mixture

Flash Point: 50°F (10°C)

Flash Point Method: Tag Closed Cup (TCC)

Auto Ignition Temperature: 789°F

VOC Content: <50 g/L mixed.

Percent Solids by Weight Not determined.

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability: Unstable.

Hazardous Polymerization: Polymerization may occur under certain conditions.

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: 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

Methyl Methacrylate Monomer:

RTECS Number: OZ5075000

Eye: Eye - Rabbit Standard Draize test.: 150 mg

Skin: Administration onto the skin - Human : 2 pph [Skin and Appendages - Dermatitis, allergic (After topical exposure)]
Administration onto the skin - Rabbit : >5 gm/kg [Skin and Appendages - Dermatitis, other (After systemic exposure)]
Administration onto the skin - Human : 2 pph/48H (Continuous) [Skin and Appendages - Dermatitis, allergic (After topical exposure)]
Administration onto the skin - Rabbit : 10 gm

Inhalation: Inhalation - Rat LC50: 78000 mg/m3/4H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 18500 mg/m3/2H [Details of toxic effects not reported other than lethal dose value]

Ingestion: Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression]
Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than lethal dose value]

2-chloro-1,3 butadiene:

RTECS Number: EI9640000

Ingestion: Oral - Rat LD50: >40 gm/kg [Details of toxic effects not reported other than lethal dose value]

Methacrylic acid:

RTECS Number: OZ2975000

Skin: Administration onto the skin - Rabbit : 500 mg/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Guinea pig : 1 gm/kg [Details of toxic

effects not reported other than lethal dose value]
Ingestion: Oral - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50: 1060 mg/kg [Details of toxic effects not reported other than lethal dose value]

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

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: Adhesives
DOT UN Number: 1133
DOT Hazard Class: 3
DOT Packing Group: II

SECTION 15 - REGULATORY INFORMATION

Methyl Methacrylate Monomer :

TSCA Inventory Status: Listed
SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey: Listed: NJ Hazardous List; Substance Number: 1277
Massachusetts: Listed: Massachusetts Oil and Hazardous List
Pennsylvania: Listed
Canada DSL: Listed

2-chloro-1,3 butadiene :

TSCA Inventory Status: Listed
Canada DSL: Listed

Methacrylic acid :

TSCA Inventory Status: Listed
Massachusetts: Listed: Massachusetts Oil and Hazardous List
Pennsylvania: Listed
Canada DSL: Listed

Methacryloxyethyl acid phosphate :

TSCA Inventory Status: Listed
Canada DSL: Listed

Paraffin wax :

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.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: 3
HMIS Health Hazard: 2*
HMIS Reactivity: 2
HMIS Personal Protection: X
MSDS Revision Date: 9/21/2012
MSDS Revision Notes: "Formula update"
MSDS 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.

