

KIT - SAFETY DATA SHEET

Product identifier used on the	
label:	
Kit Name	MA 830 GRAY
Stock No.:	IT186

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

 Address:
 30 Endicott Street

 Danvers, MA 01923

Component list	
Component B	MA830/ MA832/ MA833 GRAYACTIVATOR
Component A	MA830 ADHESIVE
Kit SDS Revision Date	9/10/2015

Component B - SDS

SECTION 1 : IDENTIFICATION		
Product identifier used on the label: Product Name:	MA830/ MA832/ MA833 GRAY ACTIVATOR	
Other means of identification: Synonyms:	None.	
Recommended use of the chemical and Product Use/Restriction:	r <u>estrictions on use:</u> Not applicable.	
Chemical manufacturer address and tele	phone number:	
Manufacturer Name:	ITW Polymers Adhesives, North America	
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

<u>Classification of the chemical in accordance with CFR 1910.1200(d)(f):</u>

GHS Pictograms:	
Signal Word:	WARNING.
GHS Class:	Organic peroxides. Type F. Reproductive toxicity. Category 1B. Eye Irritation. Category 2. Skin Irritation. Category 2. Skin Sensitization. Category 1.
Hazard Statements:	H242 - Heating may cause a fire. H360 - May damage fertility or the unborn child. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction.
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. P234 - Keep cool. P240 - Ground/Bond container and receiving equipment. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. 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.
	Product: MA830 GRAY Manufacturer: Revison:9/10/2015, Version:0

<u>Hazards not otherwise classified t</u>	 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. 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 presists: Get medical advice/attention. P337+P313 - If ace 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 - Store in a well-ventilated place. P405 - Store locked up. P410 - Protect from sunlight. P411 - Store at temperatures not exceeding°C/°F. P420 - Store separately. P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.
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.
	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.
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

<u>Mixtures:</u>			
Chemical Name	CA S#	Ingredient Percent	EC Num.
Proprietary ingredient(s)	Trade Secret	20 - 30 by weight	
Benzoyl peroxide	94-36-0	20 - 30 by weight	
Titanium dioxide	13463-67-7	1 - 10 by weight	
Bisphenol A diglycidyl ether resin	25068-38-6	10 - 20 by weight	
Diisodecyl adipate	27178-16-1	10 - 20 by weight	
Butyl benzyl phthalate	85-68-7	10 - 20 by weight	
Diisodecyl phthalate	26761-40-0	1 - 10 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary n	neasures:
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 (CO2) or dry chemical when fighting fires involving this material.

Water or foam may cause frothing.

Unsuitable extinguishing media:

Product: MA830 GRAY | Manufacturer: | Revison:9/10/2015, Version:0

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.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective ec	uipment 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 contain	ment 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. 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.
Reference to other sections:	
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:		
Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.	
Hygiene Practices:	Wash thoroughly after handling.	
Conditions for safe storage, including any incompatibilities:		
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.	

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

nded exposure limits. Good general e such systems are not effective wear ctorily and meets OSHA or other on, training, inspection and maintenance ribed by 29 CFR 1910.133, OSHA eye 66. el to prevent skin contact. Consult r cartridge or canister may be trations are expected to exceed is limited. Use a positive pressure air release, exposure levels are not known, not provide adequate protection. <i>i</i> th an eyewash and a deluge shower
e such systems are not effective wear ctorily and meets OSHA or other on, training, inspection and maintenance ribed by 29 CFR 1910.133, OSHA eye i6. el to prevent skin contact. Consult r cartridge or canister may be trations are expected to exceed is limited. Use a positive pressure air release, exposure levels are not known,
e such systems are not effective wear ctorily and meets OSHA or other on, training, inspection and maintenance ribed by 29 CFR 1910.133, OSHA eye 56.
e such systems are not effective wear ctorily and meets OSHA or other on, training, inspection and maintenance ribed by 29 CFR 1910.133, OSHA eye
e such systems are not effective wear ctorily and meets OSHA or other
e such systems are not effective wear ctorily and meets OSHA or other
s, local exhaust ventilation, or other

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Viscou

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.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
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:	Not reported.
Conditions To Avoid:	
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:	
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Benzoyl peroxide :	
Eye:	Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 7710 mg/kg [Lungs, Thorax, or Respiration - Cyanosis Liver - Other changes Kidney/Ureter/Bladder - Other changes in urine composition] Oral - Rat LD50 - Lethal dose, 50 percent kill: 6400 mg/kg [Details of toxic effects not reported other than lethal dose value] (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 as 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.
Bisphenol A diglycidyl ether resin :	
Eye:	Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild] Administration into the eye - Rabbit Standard Draize test: 20 mg/24H [Moderate] Administration into the eye - Rabbit Standard Draize test: 5 mg/24H [Severe] (RTECS)
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 mL/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >1200 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 10700 uL/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 13600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain] Oral - Rat LD50 - Lethal dose, 50 percent kill: 13.6 gm/kg [Details of toxic effects not reported other than lethal dose value]
	Product: MA830 GRAY Manufacturer: Revison:9/10/2015, Version:0

	Oral - Rat LD50 - Lethal dose, 50 percent kill: 11.4 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain] Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: >1 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 11400 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic (RTECS)
Diisodecyl adipate :	
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 20.5 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Butyl benzyl phthalate :	
Skin:	Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 6700 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >10000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation:	Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: >6700 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 2330 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Diisodecyl phthalate :	
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >3160 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 64 gm/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.

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:

Benzoyl peroxide :	
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
Bisphenol A diglycidyl ether resin :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Diisodecyl adipate :	

TSCA Inventory Status:	Listed
Canada DSL:	Listed
Butyl benzyl phthalate :	
TSCA Inventory Status:	Listed
California PROP 65:	Listed: developmental.
Canada DSL:	Listed
Diisodecyl phthalate :	
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.
WHMIS Pictograms:	\bigcirc

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:			
HMIS Health Hazard:	2*	Health Hazard	2*
HMIS Fire Hazard:	1	Fire Hazard	1
HMIS Reactivity:	2	Reactivity	2
HMIS Personal Protection:	X	Personal Protection	x
	* Chronic	Health Effects	
SDS Revision Date:	March 17, 2015		
MSDS Revision Notes:	GHS Update		
MSDS Author:	Actio Corporation		
Disclaimer:	This Health and Safety Information is correct to the best of our knowledge publication but we cannot accept liability for any loss, injury or damage wh The information given in the Data Sheet is designed only as a guidance fo the use of the substance. It is not a specification nor does it guarantee ar chemicals should be handled only by competent personnel, within a contro	ich may result from its u or safe handling, storage ny specific properties. All	se. e and

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Component A - SDS

Product identifier used on the label:		
Product Name:	MA830 ADHESIVE	
Other means of identification:		
Synonyms:	None.	
Recommended use of the chemical a	and restrictions on use:	
Product Use/Restriction:	Not applicable.	
Chemical manufacturer address and	telephone number:	
	<u>telephone number:</u> ITW Polymers Adhesives, North America	
Manufacturer Name:		
Manufacturer Name: Address:	ITW Polymers Adhesives, North America 30 Endicott Street	
Manufacturer Name: Address: General Phone Number:	ITW Polymers Adhesives, North America 30 Endicott Street Danvers, MA 01923	
Chemical manufacturer address and Manufacturer Name: Address: General Phone Number: Emergency phone number: Emergency Phone Number:	ITW Polymers Adhesives, North America 30 Endicott Street Danvers, MA 01923	

SECTION 2 : HAZARD(S) IDENTIFICATION

 $\underline{Classification \ of \ the \ chemical \ in \ accordance \ with \ CFR \ 1910.1200(d)(f):}$

GHS Pictograms:



Signal Word:	DANGER.
GHS Class:	Flammable Liquid. Category 2.
	Serious Eye Damage. Category 1.
	Skin corrosion. Category 1.
	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.
	H317 - May cause an allergic skin reaction.
	H335 - May cause respiratory irritation.
Precautionary Statements:	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.
	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.
	P301+P352 - IF SWALLOWED, Kinse mount Do not induce volmang. P302+P352 - IF ON SKIN: Wash with plenty of water.
	P303+P361+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.
	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 th	nat 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:

Chemical Name	CA S#	Ingredient Percent	EC Num.
Polychloroprene	No Data	1 - 10 by weight	
Methyl Methacrylate Monomer	80-62-6	50 - 60 by weight	
Methacrylic acid	79-41-4	1 - 10 by weight	
Proprietary ingredient(s)	Trade Secret	20 - 30 by weight	
Styrene-Butadiene-Styrene Polymer	9003-55-8	1 - 10 by weight	
Methacryloyloxyethyl acid phosphate	52628-03-2	1 - 10 by weight	
Rosin	8050-09-7	0.1 - 1.0 by weight	

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 (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:	
Special protective equipment and Protective Equipment:	orecautions for fire-fighters: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.	

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, inclue	ding 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
Methacrylic acid :	
Guideline ACGIH:	TLV-TWA: 20 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:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	Not determined.
Solubility:	Not determined.
Vapor Density:	> 1 (air = 1)
Vapor Pressure:	Not determined.
Percent Volatile:	Not determined.
Evaporation Rate:	Not determined.
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	50°F(10°C)
Flash Point Method:	Tag closed cup. (TCC)
Lower Flammable/Explosive Limit:	1.7%
Upper Flammable/Explosive Limit:	12.5%
Auto Ignition Temperature:	789°F
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.

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)
Methacrylic acid :	
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 500 mg/kg [Details of toxic 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)
Styrene-Butadiene-Styrene Polymer :	
Eye:	Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] (RTECS)

SECTION 12 : E	LOLOGICAL 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:

Methyl Methacrylate Monomer :		
TSCA Inventory Status:	Listed	
Section 313:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.	
Canada DSL:	Listed	
Methacrylic acid :		
TSCA Inventory Status:	Listed	
Canada DSL:	Listed	
Styrene-Butadiene-Styrene Polymer :		
TSCA Inventory Status:	Listed	
Canada DSL:	Listed	
Methacryloyloxyethyl acid phosphate :		

TSCA Inventory Status:

Canada DSL:

Listed 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: Health Hazard HMIS Health Hazard: 2* 2* HMIS Fire Hazard: 3 Fire Hazard HMIS Reactivity: 2 Reactivity 2 HMIS Personal Protection: Personal Protection х Х * Chronic Health Effects SDS Revision Date: May 25, 2015 MSDS Revision Notes: GHS 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.

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