



95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Material Safety Data Sheet

Date Prepared 8/2/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label)
Poly-Crete Resin: MD/SL, HF, and TF/WR all colors

COMMON NAME
 POLYOL-PIGMENT BLEND

HAZARD RATING 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Health	1
	Flammability	1
	Reactivity	0
	Personal Protection	B

SECTION II - PRODUCT COMPONENTS

	CAS.#	OSHA PEL	ACGIH TLV
Water	7732-18-5	N.E. ¹	N.E.
Polyester-ether polyol Blend	Proprietary2	N.E.	N.E.
Glycol Ester Blend	Proprietary	N.E.	N.E.
Rutile/Titanium Dioxide	13463-67-7	10mg/m ³	10mg/m ³
Inorganic Iron Oxides	1309-37-1	10mg/m ³	10mg/m ³
Carbon Black	1333-86-4	3.5mg/m ³ (dust)	.5mg/m ³ (dust)

¹None Established.

²The manufacturer of the component states that they will provide additional information to a health professional in the event of a medical emergency.

T.S.C.A. Status - O.K. on all above components.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	212°F	Specific Gravity (H2O = 1)	>1
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	>1	Evaporation rate (Butyl Acetate = 1)	<1
Volatile Organic Compounds	0 g/L		
Solubility in Water	Dispersable		
Appearance and Odor	Viscous Liquid. Color varies upon desired shade. Faint Aromatic Odor.		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	540°F	Flammable Limits	LEL N / A	UEL N / A
Extinguishing Media	Foam, CO ₂ , dry chemical, water spray.			
Special Firefighting Procedures	Wear full protective equipment including self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards	Combustion products may be toxic. Cool storage containers with water spray to prevent pressure build-up that may rupture the containers.			

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	None known
Incompatibility (Materials to Avoid)	Strong Oxidants.		
Hazardous Decomposition or Byproducts	Burning will produce toxic fumes.		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	Avoid contact with strong oxidizing agent.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	Yes	Yes
Signs and Symptoms of Exposure	Irritation of skin..		
Health Hazards (Acute and Chronic)	ACUTE - Irritation of skin and dermatitis. CHRONIC - Repeated over-exposure may cause skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure.		
NOTE: Persons with lung disorders or who are sensitized should not use this product.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No
Medical Conditions Generally Aggravated by Exposure	Allergy , skin disorders.		
Emergency and First Aid Procedures	EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary. SKIN - Promptly wash with soap and water. Do not wash with solvents. Seek medical advice if irritation develops or persists. INHALATION - Not a likely route of entry. Although this product is not known to cause respiratory problems, if breathing is difficult rmove to fresh air and provide oxygen INGESTION - Get medical attention immediately. Never give liquids to an unconscious or convulsing person.		

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)	Provide adequate exhaust ventilation; use a NIOSH approved respirator if PELs/TLVS are exceeded.		
Ventilation	Local Exhaust	If needed.	Special None known.
	Mechanical	Adequate exhaust ventilation must exhaust away from applicator.	
Protective Gloves	Natural Rubber or Neoprene		Eye Protection Splash goggles or face shield.
Other Protective Clothing or Equipment	Use rubber apron, face shield and appropriate, clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. Protective skin creams may help, but gloves must still be worn. Clean-up with soap and water. An eye wash station or an adequate supply of clean water must be available at work area.		
Work/Hygienic Practices	Enforce careful handling to prevent splashing. Wash thoroughly after use.		

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled	Wear protective equipment to prevent exposure. Stop spill and dike to prevent spreading. Cover spill with absorbent materials and collect into containers. Clean contaminated area with detergent and water or a steam cleaner for best results.
Waste Disposal Method:	Dispose in accordance with Federal, State and Local requirements.
Precautions to be Taken in Handling and Storing	Keep containers tightly closed when not in use.
Other Precautions	None known.
Prepared by	Samet Dy - Urethane Chemist

PLEASE *The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.*



Material Safety Data Sheet

95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Date Prepared 8/2/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Poly-Crete Hardener: MD/SL, HF, and TF/WR

COMMON NAME Aromatic Isocyanate Blend

HAZARD RATING	Health	2
0 = Least	Flammability	1
1 = Slight	Reactivity	1
2 = Moderate	Personal Protection	G
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS

	CAS.#	OSHA PEL	ACGIH TLV
Polyisocyanate based on MDI	Trade Secret ¹	NE ²	NE
4,4-Diphenylmethane Diisocyanate	101-68-8	0.02 ppm	0.005 ppm

¹The manufacturer of the component states that they will provide additional information to a health professional in the event of a medical emergency.

²None Established

T.S.C.A. Status - O.K. on all above components.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	392°F	Specific Gravity (H2O = 1)	1.24
Vapor Pressure (mm Hg)	<10-5 @77F	Melting Point	NE
Vapor Density (AIR = 1)	8.5	Evaporation rate (Butyl Acetate = 1)	NE
Volatile Organic Compounds	0 g/L		
Solubility in Water	Reacts slowly with water to liberate CO ₂ gas		
Appearance and Odor	Dark Amber liquid. Faint Aromatic odor.		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	>400°F	Flammable Limits	LEL	UEL
			NA	NA

Extinguishing Media Dry Chemicals, CO₂, Universal Type Foam, Water Fog

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with H₂O used for cooling purposes.

Unusual Fire and Explosion Hazards

MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures greater than 400F, polymeric MDI can polymerize and decompose which can cause pressure build-up in containers. Explosive rupture is possible. Cold water can cool fire-exposed containers.

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	Keep containers closed when not in use.

Incompatibility (Materials to Avoid) Water, amines, strong bases, alcohols. copper alloys and aluminum, zinc.

Hazardous Decomposition or Byproducts Fire: Carbon monoxide, oxides of Nitrogen, traces of HCN, MDI vapors or aerosols.

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		Contact with moisture, other materials which react with isocyanates, or temperatures above 400 F may cause polymerization.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	YES	Yes

Signs and Symptoms of Exposure Irritation and redness of skin and eyes. Breathing difficulty.

Health Hazards (Acute and Chronic) ACUTE Inhalation-can cause nasal and respiratory irritation, dizziness, headache, nausea.

Also, runny nose, sore throat, coughing, chest discomfort and reduced lung function. CHRONIC Inhalation-isocyanate sensitization can develop

which can persist for weeks or years. Overexposure can cause lung damage which may be permanent. ACUTE Skin-isocyanates react with skin

protein and cause irritation. CHRONIC Skin-prolonged contact can cause reddening, swelling, scaling, rash, blistering and skin sensitization. ACUTE

Eye-tearing, reddening, swelling if untreated, corneal damage can result.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Medical Conditions Generally Aggravated by Exposure

Respiratory disorders (asthma, bronchitis, emphysema, bronchial hyperactivity), skin allergies, eczema.

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.

Skin - remove contaminate clothing. Clean affected area with mild soap and water. If irritation or redness develops, seek medical attention.

INHALATION - move person away from source of exposure and into fresh air. If person is not breathing, give artificial respiration and seek medical attention immediately. If breathing difficulty develops, give oxygen and seek medical attention immediately.

Ingestion-DO NOT INDUCE VOMITING. Give 1 to 2 cups of milk or water to drink. Do not give anything by mouth to an unconscious person.

****NOTE** PERSONS WITH LUNG DISORDERS OR WHO ARE SENSITIZED SHOULD NOT USE THIS PRODUCT.**

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type) Use NIOSH approved respirator as outlined in 30CFR 11 and 29CFR 1910.134

effective for solvent and diisocyanate vapors. Use SCBA or air-supplied respirators when TLV/PEL is exceeded.

Ventilation	Local Exhaust	Use in confined areas.	Special	Sensitized persons must not inhale vapors
	Mechanical	Must be sufficient to maintain area below established TLV/PEL.		

Protective Gloves Neoprene rubber gloves. Eye Protection Splash proof goggles.

Other Protective Clothing or Equipment

Use other protective equipment such as rubber aprons and a face shield if danger of splashing is possible.

Eye wash station or clear water must be readily available. ENFORCE GOOD HYGIENE PRACTICES. No smoking or open lights in work area. Exposure to liquid, vapors, mists or fumes must be minimized. Use air supplied respirators in enclosed areas and when PEL/TLV is higher than established level.

Work/Hygienic Practices Launder contaminated clothing before use. Dispose contaminated leather shoes

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled Evacuate and ventilate spill area; dike spill to prevent entry into water

system; wear full protective equipment, including respiratory equipment during clean-up. Absorb isocyanates with sawdust or another absorbent, shovel into unsealed containers, transport to a well-ventilated area. Decontaminate floor area.

Waste Disposal Method

Incineration in accordance with local, state, and federal regulations.

Precautions to be Taken in Handling and Storing Store in tightly closed containers to prevent moisture contamination. Do not reseal if

contamination is suspected. Do not breathe aerosols or vapors. This material can cause asthmatic sensitization upon single exposure.

Other Precautions Exposure to vapors of heated MDI can be extremely dangerous.

Prepared by Samet Dy - Urethane Chemist

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Material Safety Data Sheet

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Date Prepared 8/2/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Poly-Crete Aggregate: MD, TC, SL, HF, TF, and WR

COMMON NAME Sand/Cement Aggregate

HAZARD RATING	Health	3
0 = Least	Flammability	0
1 = Slight	Reactivity	0
2 = Moderate	Personal Protection	G
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS

Crystalline Silica (Quartz) ¹	CAS.#	OSHA PEL	ACGIH TLV
	14808-60-7	10mg/m ³	0.05 mg/m ³
		%SiO ₂ +2	
Portland Cement	65997-15-1	10mg/m ³	10mg/m ³
		Total Dust	Total Dust
Calcium/Magnesium Hydroxide	39445-23-3	15mg/m ³	10mg/m ³
		Total Dust	Total Dust

¹Crystalline silica can be a lung injury and cancer hazard. Do not breathe dust. May cause delayed lung injury. Long term exposure can cause silicosis, a respiratory disease which can result in a delayed, disabling, and sometimes fatal lung injury. Crystalline silica inhaled from occupational sources can from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

T.S.C.A. Status - O.K.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	4,000°F	Specific Gravity (H ₂ O = 1)	>1
Vapor Pressure (mm Hg)	N/A	Melting Point	3,000°F
Vapor Density (AIR = 1)	N/A	Evaporation rate (Butyl Acetate = 1)	N/A
Volatile Organic Compounds	0 g/L		
Solubility in Water	INSOLUBLE		
Appearance and Odor	Naturally rounded sand. Various sizes. No odor.		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	N/A	Flammable Limits	LEL	UEL
			N/A	N/A
Extinguishing Media	N/A			
Special Firefighting Procedures				
N/A				
Unusual Fire and Explosion Hazards				
N/A				

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	NONE KNOWN.
Incompatibility (Materials to Avoid)	Hydrofluoric Acid and powerful oxidizing agents.		
Hazardous Decomposition or Byproducts	NONE KNOWN.		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	NONE KNOWN.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	NO	NO
Signs and Symptoms of Exposure	Shortness of breath and reduced pulmonary function.		
Health Hazards (Acute and Chronic)	ACUTE - NO SYMPTOMS. CHRONIC - excessive inhalation of dust may result in respiratory disease such as silicosis, pulmonary fibrosis, etc. The IARC has evaluated in Vol.42 (monographs) that there is "sufficient evidence for the Carcinogenicity of crystalline silica dust to experimental animal" and "limited evidence" with respect to humans.		
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	Yes (Respirable Silica)	YES*Level 2A Grouping	NO
Medical Conditions Generally Aggravated by Exposure	Lung disorders and persons subject to eye irritation.		
Emergency and First Aid Procedures	EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary. SKIN - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice if irritation develops or persists. INHALATION - Move person to fresh area if effects occur. If needed, give oxygen or artificial respiration to improve breathing. Consult physician. INGESTION - Expected to be slightly toxic by ingestion. If swallowed, induce vomiting immediately as directed by a physician. Get medical attention immediately. Never give liquids to an unconscious or convulsing person. OTHER HEALTH EFFECTS - Medical conditions which may be aggravated by exposure to this product include, conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases.Sensitization may occur by skin contact. **NOTE** persons with lung disorders or who are sensitized should not use this product		

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type): Atmospheric levels should be maintained below the exposure limits listed in section II by using engineering controls. Provide adequate exhaust ventilation and/or NIOSH approved cartridge respirator.				
Ventilation	Local Exhaust	To meet PEL requirements.	Special	None Known.
	Mechanical	Adequate to meet PEL requirements.		
Protective Gloves	Recommended.		Eye Protection	Recommended
Other Protective Clothing or Equipment	Use adequate ventilation and dust collection. To minimize exposure, wear a respirator approved for silica dust when using, handling, storing or disposing of this product. Refer to the most recent standards of ANSI (Z88.2), OSHA (29 CFR 1910.134), MSHA (30 CFR Parts 56 and 57), and NIOSH Respirator Decision Logic. Maintain, clean and fit test respirators in accordance with OSHA regulations.			
Work/Hygienic Practices	Avoid creating and breathing dust.			
SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE				
Steps to be Taken in Case Material is Released or Spilled	Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Silica may be in the air without a visible dust cloud. Avoid creation of respirable dust			
Waste Disposal Method	Dispose waste material in a sanitary land fill or as regulated by local, state and federal regulations.			
Precautions to be Taken in Handling and Storing	Avoid creation of respirable dust. Take precaution against bag breakage.			
Other Precautions	None Known.			
Prepared by	Samet Dy - Urethane Chemist			

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Date Prepared 8/2/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **Poly-Crete HF Accelerator**

COMMON NAME Polyol Cross-Linker/Urethane Reaction Promoter

HAZARD RATING	Health	2
0 = Least	Flammability	1
1 = Slight	Reactivity	0
2 = Moderate	Personal Protection	G
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS

Modified Polyol	CAS.#	OSHA PEL	ACGIH TLV
Trade Secret ¹		NE ²	NE
Water	7732-18-5	NE	NE

¹The manufacturer of these component states that they will provide additional information to a health professional in the event of an emergency.

²Not Established

T.S.C.A. Status - O.K. on all components

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	at 760mm Hg	N/A	Specific Gravity (H2O = 1)	1.03
Vapor Pressure (mm Hg)		N/A	Melting Point	N/A
Vapor Density (AIR = 1)		N/A	Evaporation rate (Butyl Acetate = 1)	N/A
Solubility in Water	100% Soluble	Volatile Organic Compounds (VOC) = 0 grams/liter		
Appearance and Odor	Clear liquid. Mild odor.			

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	400°F	Flammable Limits	LEL	UEL
			N/A	N/A

Extinguishing Media Water Fog, Foam, CO2 or Dry Chemical

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Combustion products may be toxic. Cool storage containers with water spray to prevent pressure build-up that may rupture the containers. Never use welding or cutting torch on or near drum (even empty) because product (even just empty) can ignite explosively.

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	Exposure to moisture and temperatures >80°F
Incompatibility (Materials to Avoid)	Avoid moisture to protect product quality		
Hazardous Decomposition or Byproducts	CO and CO2		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	NONE KNOWN.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	YES	YES

Signs and Symptoms of Exposure Irritation of skin.

Health Hazards (Acute and Chronic)

ACUTE - Irritation of skin.

CHRONIC - repeated overexposure may cause severe skin irritation, dermatitis and sensitization.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Medical Conditions Generally Aggravated by Exposure

Allergy, skin disorders.

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.

SKIN- Promptly wash with soap and water. Do not wash with solvents. Seek medical advice if irritation develops or persists.

INHALATION- Move person to fresh air if effects occur. If needed, give oxygen or artificial respiration to improve breathing. Consult physician.

INGESTION - Get medical attention immediately. Never give liquids to an unconscious or convulsing person.

****NOTE** PERSONS WITH LUNG DISORDERS OR WHO ARE SENSITIZED SHOULD NOT USE THIS PRODUCT.**

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

Provide adequate exhaust ventilation; use a NIOSH - approved respirator if PELs/TLVs are exceeded.

Ventilation	Local Exhaust	If needed.	Special	None Known.
	Mechanical	Adequate exhaust ventilation must exhaust AWAY from applicator.		

Protective Gloves Natural or Neoprene gloves. Eye Protection Splash goggles or face shield.

Other Protective Clothing or Equipment

Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. Protective skin creams help cleaning with soap and water, gloves must still be worn. An eye wash station and adequate supply of clean water must be available at work area.

Work/Hygienic Practices Enforce careful handling to prevent splashing. Wash thoroughly after use.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled

Wear protective equipment to prevent exposure. Stop spill and dike to prevent spreading. Cover spill with absorbent materials and collect into containers. Clean contaminated area with detergent and water or a steam cleaner for best results.

Waste Disposal Method

Dispose in accordance with Federal, State and Local requirements.

Precautions to be Taken in Handling and Storing

Keep containers tightly closed when not in use.

Other Precautions None Known.

Prepared by Samet A Dy - Urethane Chemist

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95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Date Prepared 8/2/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Cryl-A-Cure
COMMON NAME Benzoyl Peroxide; Dibenzoyl Peroxide; BPO

HAZARD RATING	Health	3
0 = Least	Flammability	1
1 = Slight	Reactivity	3
2 = Moderate	Personal Protection	E
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS	CAS.#	OSHA PEL	ACGIH TLV
Benzoyl Peroxide - (BPO)	94-36-0	5 mg/m ³	5 mg/m ³
Dicyclohexylphthalate	84-61-7	15 mg/m ³	10 mg/m ³

Benzoyl peroxide is subject to SARA title III, section 313 reporting requirement.

Shipping Description: Organic Peroxide Type D Solid (dibenzoyl peroxide, 50%) 5.2, UN3106, PG II
North American Emergency Response Guide No. :145

Required Labels: Organic Peroxide.

Environ. Hazardous Substance: This product does not contain an environmentally hazardous substance per 49CFR 172.101 appendix A.

T.S.C.A. Status - O.K. on all above components.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point °F	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation rate (Butyl Acetate = 1)	N/A
Volatile Organic Compounds (VOC) = Zero grams/liter		Molecular Weight	242 . 2
Solubility in Water	INSOLUBLE		
Appearance and Odor	White granules with slight odor		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)		Flammable Limits	LEL	UEL
	N/A		N/A	N/A

Extinguishing Media Use water mist, CO₂, foam, or dry powder.

Special Firefighting Procedures

Evacuate area and apply water from a safe distance. Spray water on the nearby peroxide containers to prevent overheating. Use self-contained, positive pressure/pressure demand respirators.
Unusual Fire and Explosion Hazards

Peroxides and decomposition products are flammable and can ignite with explosive force if confined.

SECTION V - REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid
	Stable		Keep containers closed when not in use.
Incompatibility (Materials to Avoid)	Peroxides, amines, sulfur compounds, heavy metal ions and alkalis		
Hazardous Decomposition or Byproducts	Oxides of Carbon and Biphenyl		
Hazardous Polymerization	May Occur	X	Conditions to Avoid: Hazardous conditions to avoid that could cause decomposition are extensive
	Will Not Occur		heat or contaminated with incompatatabe materials.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? YES Skin? Yes Ingestion? Yes

Health Hazards ACUTE: SKIN:LD50-ND- Not a primary skin irritant or corrosive hazard to skin (based on rabbit tests with 78 % wet BPO

Eyes: Draiz test unknown. Results on rabbits characterized as "Minor reactions" for 50 % paste and Powder. Inhalation: LC50 -ND- at 24.3 mg/l (rats-4-hour exposure) 78% wet BPO was " not a highly toxic substance". Oral: LD50-ND- at 5000 mg/kg level (rats), 78 % wet BPO was deemed "not a toxic substance". LD50 = >15,000 mg/ kg (rat) for phthtate. OTHER: Mutagenicity- Negative in the ames test for 78 % wet BPO.

Benzoyl peroxide has given negative results in several skin painting studies (mice) and positive results in one such study (mice). The relevance of the positive result, if any, to humans is not known at this time. Persons with skin disorders or impaired respiratory function are at increased risk of exposure.

Effects of Over exposure: DERMAL: Prolonged skin contact may cause skin irritation, redness and excessive dryness. EYE: Contact may cause eye irritation. Repeated exposure may cause conjunctivitis. INHALATION: May cause irritation of the nose, throat and lungs, cough and dyspnea. INGESTION: May cause abdominal pain, nausea and vomiting.

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice.

SKIN - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice if irritation develops or persists.

INHALATION - Move person to fresh area if effects occur. If needed, give oxygen or artificial respiration to improve breathing . Consult physician.

INGESTION - If swallowed, DO NOT induce vomiting. Give plenty of water. Contact poison control center Get medical attention immediately. Never give liquids to an unconscious or convulsing person.

OTHER HEALTH EFFECTS - Medical conditions which may be aggravated by exposure to this product include, conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type): Atmospheric levels should be maintained below the exposure limits listed in section II by

using engineering controls. Provide adequate exhaust ventilation and/or NIOSH/MSHA Approved respirator for nuisance dust.

Ventilation	Local Exhaust	If needed.	Special	None known.
	Mechanical	Adequate exhaust ventilation must exhaust AWAY from applicator.		

Protective Gloves Natural rubber or Neoprene. Eye Protection Splash goggles or face shield.

Other Protective Clothing or Equipment

Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. Protective skin creams help cleaning with soap and water, gloves must still be worn. An eye wash station or an adequate supply of clean water must be available at work area.

Work/Hygienic Practices Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Do not store near combustibles. Wash thoroughly after handling. Do not get in eyes, on skin or clothing.

Do not breathe dust. Keep container closed. Empty container may contain hazardous residues.

Use explosion proof equipment

Keep away from all sources of heat and ignition such as radiators, steam pipes and direct sunlight.

Waste Disposal Method: Dispose in accordance with Federal, State and Local requirements.

Precautions to be Taken in Handling and Storing:

Store in cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use.

Other Precautions More information may be found in NFPA bulletin 43B "Storage of Organic Peroxide Formulations".

Prepared By: Samet Dy - Chemist

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Material Safety Data Sheet

95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Date Prepared 08/02/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **CRYL-A-GLAZE: G201 and G201 BioPruf**

COMMON NAME: Acrylate polymers dissolved in methacrylate monomers

HAZARD RATING	Health	2
0 = Least	Flammability	3
1 = Slight	Reactivity	2
2 = Moderate	Personal Protection	G
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS

Component	CAS.#	OSHA PEL	ACGIH TLV
Methyl Methacrylate	80-62-6	100 ppm	100 ppm
2-Ethylhexyl Acrylate	103-11-7	N.E. ¹	N.E.
2-Hydroxyethyl-p-Toluidine	3077-12-1	N.E.	N.E.
Acrylic Polymer ²	proprietary	100 ppm	100 ppm
Triethylene Glycol Dimethacrylate	109-16-1	N.E.	N.E.
Mixed Mineral Pigment	Proprietary ³	0.5mg/m ³	0.5mg/m ³
Inorganic Iron Oxides	1309-37-1	10mg/m ³	10mg/m ³

¹ N.E. = None Established

² Acrylate polymers dissolved in methacrylate monomers

³ The manufacturer of the component states that they will provide additional information to a health professional in the event of a medical emergency.

Warning: This material is highly flammable. Direct contact can cause severe irritation to the eyes, skin and respiratory tract.

Inhalation and skin contact can cause an allergic sensitization. 1

nausea, drowsiness and unconsciousness.

T.S.C.A. Status - O.K. on all above components.

FOR SPILL, LEAK, FIRE, OR ACCIDENT, CALL CHEMTREC 24-HOUR EMERGENCY NUMBER 1-800-424-9300

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point °F	212 (MMA)	Specific Gravity (H ₂ O = 1)	approx. 1
Vapor Pressure (mm Hg)	30 (MMA)	Melting Point	N/A
Vapor Density (AIR = 1)	>1 (MMA)	Evaporation rate (Butyl Acetate = 1)	>1
Volatile Organic Compounds (VOC) = Zero grams/liter			
Solubility in Water	16 g/l (MMA)		
Appearance and Odor	Low viscosity. Moderately turbid fluid with a sweet ester odor		

SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	50 °F	Flammable Limits	LEL	UEL
			2.10%	12.50%

Extinguishing Media Use water mist, CO₂, foam, dry powder or cover with sand

Special Firefighting Procedures

Evacuate enclosed and surrounding areas. If smoke and fumes cannot be avoided, use proximity suit and self-contained breathing apparatus. Use water spray to cool containers and disperse vapors. Keep spills away from sources of ignition.

Unusual Fire and Explosion Hazards

Vapor is heavier than air and forms explosive mixture with air. Never use welding or cutting torch on or near containers or drums (even when empty). Product residue or vapor in drum or container can ignite explosively.

SECTION V - REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	
	Stable	X	Keep containers closed when not in use.
Incompatibility (Materials to Avoid)	Reducing agents, Oxidizing agents, solid polymeric particles		
Hazardous Decomposition or Byproducts	Thermal decomposition may yield water, oxides of carbon, and acid fumes		
Hazardous Polymerization	May Occur	X	Conditions to Avoid: High temperatures, oxygen-free atmospheres, or contaminated areas. Avoid contact with peroxides, azocompounds and redox systems.
	Will Not Occur		

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	YES	YES

Signs and Symptoms of Exposure Irritation of skin.

Health Hazards (Acute and Chronic)

ACUTE - Irritation of skin and dermatitis.

CHRONIC - Inhalation and skin contact can lead to an allergic respiratory sensitization. Persons may experience rapid irritation of skin upon exposure.

Persons with lung disorders or who are sensitized should not use this product.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Medical Conditions Generally Aggravated by Exposure

Conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases.

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.

SKIN - PROMPTLY wash with soap and water. DO NOT wash with solvents. Seek medical advice if irritation develops or persists.

INHALATION - May cause burns to the respiratory tract. Move person to fresh area if effects occur. If needed, give oxygen or artificial respiration to improve breathing. Consult physician.

INGESTION - Expected to be slightly toxic by ingestion. May cause burns to the gastrointestinal tract. If swallowed, induce vomiting immediately as directed by a physician. Get medical attention immediately.

Never give liquids to an unconscious or convulsing person.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type): Atmospheric levels should be maintained below the exposure limits listed in section II by

using engineering controls. Provide adequate exhaust ventilation and/or NIOSH approved cartridge respirator.

Ventilation	Local Exhaust	If needed.	Special	None known.
	Mechanical	Adequate exhaust ventilation must exhaust AWAY from applicator.		

Protective Gloves Natural rubber or Neoprene. Eye Protection Splash goggles or face shield.

Other Protective Clothing or Equipment:

Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. Protective skin creams help cleaning with soap and water, gloves must still be worn. An eye wash station or an adequate supply of clean water must be available at work area.

Work/Hygienic Practices Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Wear protective equipment to prevent exposure. Stop spill and dike with sand or earth to prevent spreading. Avoid ignition sources. Absorb with sand or other non-flammable absorbent material and transfer to approved DOT drum for recovery or disposal. CERCLA/SARA requires notification of the appropriate Federal, State and Local authorities of releases of hazardous or extremely hazardous quantities equal to or greater than the reportable quantities (RQs)

40 CFR 302.4 and 40 CFR 355. SARA Title 313 requires submission of annual reports of releases of toxic chemicals that appear in 40 CFR 372. Components present in this product at a level which could require reporting are listed in section II.

Waste Disposal Method: This material is a hazardous waste (as per RCRA) because of its ignitability. Disposal should be conducted by an EPA or (RCRA) permitted Facility. CERCLA Reporting: Methyl Methacrylate (MMA) RQ=1000# SARA Title 313 reporting MMA

Precautions to be Taken in Handling and Storing:

Store in cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use.

Other Precautions DO NOT THIN THIS PRODUCT

Prepared By: Samet Dy - Chemist

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Material Safety Data Sheet

95 Goodwin Street, East Hartford, CT., 06108 (860) 528-9838

Date Prepared 08/02/2010

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **CRYL-A-TOP: T-301,T-302, T-303 & BioPruf**

COMMON NAME: Acrylate polymers dissolved in methacrylate monomers

HAZARD RATING	Health	2
0 = Least	Flammability	3
1 = Slight	Reactivity	2
2 = Moderate	Personal Protection	G
3 = High		
4 = Extreme		

SECTION II - PRODUCT COMPONENTS

CAS.#	OSHA PEL	ACGIH TLV	
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Triethylene Glycol Dimethacrylate	109-16-1	N.E.	N.E.
Mixed Mineral Pigment	Proprietary ³	0.5mg/m ³	0.5mg/m ³
Inorganic Iron Oxides	1309-37-1	10mg/m ³	10mg/m ³

¹ N.E. = None Established

² Acrylate polymers dissolved in methacrylate monomers

³ The manufacturer of the component states that they will provide additional information to a health professional in the event of a medical emergency.

Warning: This material is highly flammable. Direct contact can cause severe irritation to the eyes, skin and respiratory tract.

Inhalation and skin contact can cause an allergic sensitization. 1

nausea, drowsiness and unconsciousness.

T.S.C.A. Status - O.K. on all above components.

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point °F	212 (MMA)	Specific Gravity (H ₂ O = 1)	approx. 1
Vapor Pressure (mm Hg)	30 (MMA)	Melting Point	N/A
Vapor Density (AIR = 1)	>1 (MMA)	Evaporation rate (Butyl Acetate = 1)	>1
Volatile Organic Compounds (VOC) = Zero grams/liter			
Solubility in Water	16 g/l (MMA)		
Appearance and Odor	Low viscosity. Moderately turbid fluid with a sweet ester odor		

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Flash Point (Closed Cup Method)	50 °F	Flammable Limits	LEL	UEL
			2.10%	12.50%

Extinguishing Media Use water mist, CO₂, foam, dry powder or cover with sand

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SECTION V - REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Keep containers closed when not in use.
Incompatibility (Materials to Avoid)	Reducing agents, Oxidizing agents, solid polymeric particles	
Hazardous Decomposition or Byproducts	Thermal decomposition may yield water, oxides of carbon, and acid fumes	
Hazardous Polymerization	May Occur	X Conditions to Avoid: High temperatures, oxygen-free atmospheres, or contaminated areas. Avoid contact with peroxides, azocompounds and redox systems.
	Will Not Occur	

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	YES	YES

Signs and Symptoms of Exposure Irritation of skin.

Health Hazards (Acute and Chronic)

ACUTE - Irritation of skin and dermatitis.

CHRONIC - Inhalation and skin contact can lead to an allergic respiratory sensitization. Persons may experience rapid irritation of skin upon exposure.

Persons with lung disorders or who are sensitized should not use this product.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Medical Conditions Generally Aggravated by Exposure

Conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases.

Emergency and First Aid Procedures

EYES - Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.

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Ventilation	Local Exhaust	If needed.	Special	None known.
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Protective Gloves Natural rubber or Neoprene. Eye Protection Splash goggles or face shield.

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Other Precautions DO NOT THIN THIS PRODUCT

Prepared By: Samet Dy - Chemist

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