



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

<sup>1</sup> N.E. = None Established

<sup>2</sup> Acrylate polymers dissolved in methacrylate monomers

<sup>3</sup> 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. I  
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 <sub>2</sub> 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, CO<sub>2</sub>, 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

**PLEASE NOTE** "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."



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) **Cryl-A-Color: all colors**

COMMON NAME Acrylate Pigmented Dispersions

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
Titanium Dioxide	13463-67-7	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>
Aluminum Hydroxide	21645-51-2	10mg/m <sup>3</sup>	2mg/m <sup>3</sup>
Amorphous Silica	7631-86-9	80mg/m <sup>3</sup>	10mg/m <sup>3</sup>
Inorganic Iron Oxides	1309-37-1	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>
1,6-Hexanedioldiacrylate	13048-33-4	N.E. <sup>1</sup>	N.E.
Tripropylene Glycol Diacrylate	42978-66-5	N.E.	N.E.

<sup>1</sup>N.E. = None Established

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

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## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point °F	N/A	Specific Gravity (H <sub>2</sub> O = 1)	>1
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Density (Butyl Acetate = 1)	N/A
Volatile Organic Compounds (VOC) = Zero grams/liter			
Solubility in Water: Negligible			
Appearance and Odor: Powder of specified color with no odor			

## SECTION IV - FIRE and EXPLOSION HAZARD DATA

Flash Point (Closed Cup Method)	213°F	Flammable Limits	LEL	UEL
			N/A	N/A

Extinguishing Media Use CO<sub>2</sub>, 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	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 produce oxides of carbon, nitrogen, and sulfur	
Hazardous Polymerization	May Occur	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, nose throat and lungs, eye irritation		
Health Hazards (Acute and Chronic)	ACUTE - Irritation of skin, eyes, nose, throat, lungs, shortness of breath. CHRONIC - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure.		
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 - Move person to fresh area if effects occur. If needed, give oxygen or artificial respiration to improve breathing. Consult physician.

INGESTION - If person is conscious, give water or milk to dilute stomach contents.

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/MSHA Approved 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.

Eliminate all sources of ignition. Scoop or vacuum up, place in closed container in accordance to Resources Conservation and Recovery Act (RCRA), and in accordance with federal, state and local regulations.

Waste Disposal Method:

Dispose in accordance with Federal, State and Local requirements.

Other Precautions NONE KNOWN.

Prepared By: Murty Bhamidipati - Chemist

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# 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)** 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 = major		
4 = Extreme		

## SECTION II - PRODUCT COMPONENTS

	CAS.#	OSHA PEL	ACGIH TLV
Benzoyl Peroxide - (BPO)	94-36-0	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Dicyclohexylphthalate	84-61-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

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 <sub>2</sub> 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)	N/A	Flammable Limits	LEL	UEL
			N/A	N/A

Extinguishing Media Use water mist, CO<sub>2</sub>, 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 incompatable 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

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

<sup>1</sup> N.E. = None Established

<sup>2</sup> Acrylate polymers dissolved in methacrylate monomers

<sup>3</sup> 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 <sub>2</sub> 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, CO<sub>2</sub>, 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	

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.

## 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 8/2/2010

## SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Cryl-A-Prime: P101 & P101 Bio-Pruf®

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	
Methyl Methacrylate	80-62-6	100 ppm	100 ppm
Dimethyl-p-Toluidine	99-97-8	N.E. <sup>1</sup>	N.E.
Triethylene Glycol Dimethacrylate	109-16-0	N.E.	N.E.
Acrylic polymer	Proprietary <sup>2</sup>	100 ppm	100 ppm

<sup>1</sup> N.E. = None Established

<sup>2</sup>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. Inhalation of high vapor concentrations can cause headache, 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 <sub>2</sub> 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, CO<sub>2</sub>, 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 XII.

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

**PLEASE NOTE** "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) Dur-A-Chips/ Cryl-A-Chips

COMMON NAME Pigmented Vinyl Flakes

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

## SECTION II - PRODUCT COMPONENTS

	CAS.#	OSHA PEL	ACGIH TLV
Ethylene Glycol	107-21-1	NE <sup>1</sup>	50ppm

<sup>1</sup>None Established

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

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## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	2.5
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

Solubility in Water Insoluble

Appearance and Odor Various colored flakes.

## SECTION IV - FIRE and EXPLOSION HAZARD DATA

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

Extinguishing Media Water or carbon dioxide

Special Firefighting Procedures

Use respiratory masks to remove smoke and organic vapors.

Unusual Fire and Explosion Hazards

When polymer burns, water, carbon dioxide, carbon monoxide and smoke are produced.

## SECTION V - REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	

Incompatibility (Materials to Avoid) None known

Hazardous Decomposition or Byproducts Upon burning - acetic acid, acetaldehyde, carbon dioxide.

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	

## SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	No	Possible

Signs and Symptoms of Exposure Bronchial irritation.

Health Hazards (Acute and Chronic)

No toxic effects have been noted from inhalation or ingestion in animals with exposure. Human health effects of overexposure may include a respiratory irritation with cough and shortness of breath. Individuals with pre-existing lung diseases may react more to over-exposure.

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

Medical Conditions Generally Aggravated by Exposure

May aggravate pre-existing respiratory conditions.

Emergency and First Aid Procedures

Wash dust from the skin with soap and water. Flush out eyes with generous amounts of water for at least 15 minutes. See a physician if necessary.

## 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	Use when needed.	Special	None
	Mechanical	Not usually required.		

Protective Gloves Not usually required. Eye Protection Safety glasses.

Other Protective Clothing or Equipment

Use a dust mask in a dusty environment.

Work/Hygienic Practices Nothing unusual. Avoid dust.

## SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled

Not a RCRA listed hazardous waste. Sweep up and/or shovel or use a vacuum to clean up spillage.

Deposit into covered container for disposal.

Waste Disposal Method

Dispose of according to Federal, State, or local regulations. If approved, remove to land disposal area.

Precautions to be Taken in Handling and Storing

In case of skin contact, the compound is not likely to be hazardous but cleaning the skin after use is advisable.

Other Precautions None known

Prepared by Samet Dy - Urethane Chemist

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