



Material Safety Data Sheet

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

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

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

COMMON NAME Aromatic Isocyanate

| | | |
|---------------|---------------------|---|
| 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 Contact with moisture, other materials which react with isocyanates, or temperatures above 400 F may cause polymerization. |
| | Will Not Occur | | |

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.

Consult physician

****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 30CFR11 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

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 9/1/2008

SECTION I - IDENTIFICATION

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

COMMON NAME POLYOL-PIGMENT BLEND

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

SECTION II - PRODUCT COMPONENTS

| | CAS.# | OSHA PEL | ACGIH TLV |
|---|--------------------------|-----------------------------|-----------------------------|
| Polyester-ether polyol dispersed in water | Proprietary ² | NE ¹ | N.E. |
| Phthalate/Diluents Ester | Proprietary | N.E. | N.E. |
| Surfactant | 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) | 3.5mg/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 | UEL |
| | | | N / A | N / A |

Extinguishing Media Foam, CO₂, 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 move 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/Hygenic 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.*



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Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

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

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 |
| 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." |
| NOTE | |



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

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **SL Filler Blend**

COMMON NAME Sand Aggregate

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

SECTION II - PRODUCT COMPONENTS

| CAS.# | OSHA PEL | ACGIH TLV |
|--|----------------------|--|
| Crystalline Silica (Quartz) ¹ | 14808-60-7 | <u>10mg/m³</u> 0.05 mg/m ³ |
| | %SiO ₂ +2 | |

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 | 4046°F | Specific Gravity (H ₂ O = 1) | 2.65 |
| Vapor Pressure (mm Hg) | N/A | Melting Point | 2930°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 Compatible with all extinguishing media. Use any media appropriate for the surrounding fire.

Special Firefighting Procedures

N/A

Unusual Fire and Explosion Hazards

N/A

SECTION V - REACTIVITY DATA

| | | |
|-----------|----------|---------------------|
| Stability | Unstable | Conditions to Avoid |
| | Stable | NONE KNOWN. |

Incompatibility (Materials to Avoid) Reducing agents, strong oxidizers, acids, alkalis, and accelerators

Hazardous Decomposition or Byproducts NONE KNOWN.

| | | |
|--------------------------|----------------|---------------------|
| Hazardous Polymerization | May Occur | Conditions to Avoid |
| | Will Not Occur | 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)

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

| | | | | |
|-------------|---------------|------------------------------------|---------|-------------|
| 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

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."



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Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Dur-A-Glaze #4 All Hardeners

COMMON NAME Epoxy Hardeners: Regular, Water Clear, Damp Primer, Fast, Cold Cure, CR4

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

SECTION II - PRODUCT COMPONENTS

| CAS.# | OSHA PEL | ACGIH TLV |
|--|------------|------------------------|
| Benzyl Alcohol | 100-51-6 | N.E. ¹ N.E. |
| 3, Aminomethyl -3,5,5-Trimethyl | 2855-13-2 | N.E. N.E. |
| 1, 5 Pentanediamine, 2 Methyl | 15520-10-2 | N.E. N.E. |
| N, Aminoethyl Piperazine | 140-31-8 | N.E. N.E. |
| Diglycidyl Ether Bisphenol A Epoxy Resin | 25085-99-8 | N.E. N.E. |
| Salicylic Acid | 69-72-7 | N.E. N.E. |
| 1, 5 Pentanediamine, 2 Methyl | 15520-10-2 | N.E. N.E. |
| N, Aminoethyl Piperazine | 140-31-8 | N.E. N.E. |
| Benzene-1,3-Dimethanamine | 1477-550 | N.E. N.E. |
| Phenol | 108-95-2 | N.E. N.E. |
| Triphenyl phosphite | 101-02-0 | N.E. N.E. |

¹None 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

| | | | |
|----------------------------------|---|--------------------------------------|-----|
| Bolling Point | 485F | Specific Gravity (H2O = 1) | <1 |
| Vapor Pressure (mm Hg) | 0.02 | Melting Point | N/A |
| Vapor Density (AIR = 1) | N/A | Evaporation rate (Butyl Acetate = 1) | N/A |
| Volatile Organic Compounds (VOC) | 83 g/l | | |
| Solubility in Water | Partially soluble. | | |
| Appearance and Odor | Pale yellow colored liquid. Amine odor. | | |

SECTION IV - FIRE and EXPLOSION HAZARD DATA

| | | | | |
|------------------------------------|---|------------------|-----|-----|
| Flash Point (Closed Cup Method) | 220F | Flammable Limits | LEL | UEL |
| | | | N/A | N/A |
| Extinguishing Media | Dry chemicals, carbon dioxide, foam, water spray. | | | |
| Special Firefighting Procedures | Firefighters should wear full emergency equipment with self-contained breathing apparatus. Irritating gases may be generated by fire. | | | |
| Unusual Fire and Explosion Hazards | Cool exposed containers with cold water spray to prevent pressure buildup that may rupture the containers. | | | |

SECTION V - REACTIVITY DATA

| | | |
|---------------------------------------|--|---|
| Stability | Unstable | Conditions to Avoid |
| | Stable | X Keep container closed when not in use. |
| Incompatibility (Materials to Avoid) | Strong oxidizers and acids. | |
| Hazardous Decomposition or Byproducts | By Fire- carbon monoxide, carbon dioxide, aldehydes, nitrogen. | |
| Hazardous Polymerizati | May Occur | Conditions to Avoid |
| | Will Not Occur | X Uncontrolled reaction with epoxy resins. Avoid breathing fumes generated by hardener and epoxy mixture when not used within established pot life. |

SECTION VI - HEALTH HAZARD DATA

| | | | |
|---|--|------------------|-----------------|
| Route(s) of Entry: | Inhalation? | Skin? | Ingestion? |
| | YES | YES | YES |
| Signs and Symptoms of Exposure | Irritation on skin. | | |
| Health Hazards (Acute and Chronic) | Note: Persons with lung disorders or who are sensitized should not use this product. | | |
| | ACUTE - Irritation on skin and dermatitis. | | |
| | 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 | 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. | | |

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 be still be worn. 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 - 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.*



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

Material Safety Data Sheet

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **Shop Floor Resin, all colors**

COMMON NAME **Pigmented Epoxy Resin**

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

SECTION II - PRODUCT COMPONENTS

| CAS.# | OSHA PEL | ACGIH TLV |
|--|------------|---|
| Diglycidyl Ether Bisphenol A Epoxy Resin | 25068-38-6 | N.E. ¹ N.E. |
| Aliphatic Glycidyl Ether Diluent | 68609-97-2 | N.E. N.E. |
| Titanium Dioxide | 13463-67-7 | 15mg/m ³ 10mg/m ³ |
| Calcium Carbonate | 1317-65-3 | 15mg/m ³ 10mg/m ³ |
| Aluminum Silicate | 1332-58-7 | 15mg/m ³ 2mg/m ³ |
| Barium Sulfate ² | 7727-43-7 | 10mg/m ³ 10mg/m ³ |
| Inorganic Iron Oxides | 1309-37-1 | 15mg/m ³ 10mg/m ³ |
| Chromium(III) Oxide Green(trivalent chromium) ³ | 1308-38-9 | 1.0mg/m ³ 0.5mg/m ³ |

¹Not Established

²Barium Sulfate is listed in SARA III, Part 372, Section 313.

³This product contains only 1-3ppm (0.0001%-0.0003%) leachable hexavalent chromium. Trivalent chromium is not specifically listed as a possible carcinogen. Only in Dark Green and Light Green pigmented systems.

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 | N/A | Specific Gravity (H2O = 1) | 1.2 |
| Vapor Pressure (mm Hg) | N/A | Melting Point | N/A |
| Vapor Density (AIR = 1) | N/A | Evaporation rate (Butyl Acetate = 1) | >1 |
| Volatile Organic Compounds | 0 g/L | | |
| Solubility in Water | Not Soluble | | |
| Appearance and Odor | Pigmented viscous liquid. Mild characteristic odor. | | |

SECTION IV - FIRE and EXPLOSION HAZARD DATA

| | | | |
|---------------------------------|-------|------------------|---------|
| Flash Point (Closed Cup Method) | 485°F | Flammable Limits | LEL UEL |
| | | | N/A N/A |

Extinguishing Media **Water spray, Foam, CO₂, Dry Chemicals.**

Special Firefighting Procedures

Wear full protective equipment including self - contained breathing apparatus.

Unusual Fire and Explosion Hazards

Cool storage containers with water spray to prevent pressure build-up that may rupture the containers.

Combustion products may be toxic.

SECTION V - REACTIVITY DATA

| | | |
|---------------------------------------|--|--|
| Stability | Unstable | Conditions to Avoid |
| | Stable | X Excess heating over long periods of time degrades the resin. |
| Incompatibility (Materials to Avoid) | Uncontrolled reaction with amines. | |
| Hazardous Decomposition or Byproducts | By Fire - Carbon monoxide, Carbon dioxide, Nitrogen oxides, Aldehydes. | |
| Hazardous Polymerization | May Occur | Conditions to Avoid |
| | Will Not Occur | X Uncontrolled reaction with amines. |

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 - Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized 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

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.

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 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/Hygenic 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**

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Material Safety Data Sheet

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

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **Q28, Q11 Colored Quartz and Natural Sands**

COMMON NAME: **Pigmented Sands* and Flintshot, 00, 0, 290 Flour, Special Bond Sands****

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

SECTION II - PRODUCT COMPONENTS

| CAS.# | OSHA PEL | ACGIH TLV |
|--|------------|--|
| Crystalline Silica (Quartz) ¹ | 14808-60-7 | 10mg/m ³ 0.05 mg/m ³ |
| | | %SiO ₂ +2 |
| Titanium Dioxide Pigment | 13463-67-7 | 15mg/m ³ 10mg/m ³ |
| Iron Oxide Pigment | 1309-37-1 | 15mg/m ³ 10mg/m ³ |
| Kaolin Clay | 1332-58-7 | 15mg/m ³ 2mg/m ³ |
| Chromium Oxide Green (trivalent chromium) ² | 1308-38-9 | 1.0mg/m ³ 0.5mg/m ³ |

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. A single exposure will not result in serious and adverse effects.

² In Green quartz ONLY. This product only 1-3ppm (0.0003%) leachable hexavalent chromium. Trivalent chromium is not specifically listed as a possible carcinogen. It is regulated under SARA III, 40CFR Part 372, Section 313.

*Also includes Crystal Grades, Synthetic Turf Blends, T-32 colored Aggregate, and Progreen Blends

**Includes .45-.55 Sand, F-62, F-70 Grades, NJ 1/4, NJ 000, NJ 1/2, Q-Rok #2 and #3

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 | 4046°F | Specific Gravity (H ₂ O = 1) | 2.65 |
| Vapor Pressure (mm Hg) | N/A | Melting Point | 2930°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 Compatible with all extinguishing media. Use any media appropriate for the surrounding fire.

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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Material Safety Data Sheet

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

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Armor Top Hardener

COMMON NAME Aliphatic Polyisocyanate Resin Solution

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

SECTION II - PRODUCT COMPONENTS

| | CAS.# | OSHA PEL | ACGIH TLV |
|---|------------|-------------------|-----------|
| Homopolymer of HDI | 28182-81-2 | N.E. ¹ | N.E. |
| Hexamethylene Diisocyanate (HDI) ² | 822-06-0 | N.E. | 0.005ppm |
| Dipropylene glycol monomethyl ether acetate | 88917-22-0 | N.E. | N.E. |
| Methyl-1,3-dioxolan-2-one | 108-32-7 | N.E. | N.E. |

¹not established

²Residual monomer content is less than 0.5% based on resin solids at the time of manufacture

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 | DPMA | 392°F | Specific Gravity (H2O = 1) | 1.11 |
| Vapor Pressure (mm Hg) | HDI | 4.7 x 10 ⁻⁷ | Melting Point | N/A |
| Vapor Density (AIR = 1) | DPMA | 6.6 | Evaporation rate (Butyl Acetate = 1) | 0.015 |
| Volatile Organic Compounds (VOC) = 74 grams/liter | | | | |
| Solubility in Water | NOT SOLUBLE. | | | |
| Appearance and Odor | Clear, mild ester-like odor. | | | |

SECTION IV - FIRE and EXPLOSION HAZARD DATA

| | | | | |
|---------------------------------|---|------------------|-----------|-----------|
| Flash Point (Closed Cup Method) | 186°F | Flammable Limits | LEL | UEL |
| | | | 1.21 vol% | 5.35 vol% |
| Extinguishing Media | Dry Chemicals, CO ₂ , Universal Type Foam. | | | |

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus. During a fire, HDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Closed container may explode when exposed

to extreme heat or burst when contaminated with water (CO₂ evolved).

Unusual Fire and Explosion Hazards

Spills of this on hot fibrous insulations may lead to lowering of the autoignition temperatures resulting in possible spontaneous combustion

SECTION V - REACTIVITY DATA

| | | | |
|---------------------------------------|---|---|--|
| Stability | Unstable | | Conditions to Avoid |
| | Stable | X | Keep containers closed when not in use. Avoid static discharge. Flammable vapors released at elevated temps. |
| Incompatibility (Materials to Avoid) | Avoid oxidizers and phosphorus-containing materials. | | |
| Hazardous Decomposition or Byproducts | Fire may yield carbon monoxide and/or carbon dioxide. | | |
| Hazardous Polymerization | May Occur | X | Conditions to Avoid |
| | Will Not Occur | | Contact with moisture or other materials which react with isocyanates or temperatures above 400F. |

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 - prolonged skin exposure can cause irritation, dermatitis. Inhalation of vapors can cause nasal and respiratory irritation, dizziness, headache, nausea. | | |
| | CHRONIC - prolonged or repeated exposure to vapors may cause lung damage as well as increased sensitivity. | | |
| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
| | NO | NO | NO |

Medical Conditions Generally Aggravated by Exposure

Asthma and other respiratory disorders(bronchitis, emphysema, hyperreactivity), 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.

****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 30CFR11 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 | Explosion proof fans when needed. |
| | 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

Shut off and eliminate all ignition sources. Keep people away. Add sand, earth or other absorbent to spill area. Ventilate confined spaces. Open windows and doors, minimize breathing vapors and skin contact. Keep spill out of sewers by diking. Observe precautions for volatile, flammable vapors from absorbed material.

Waste Disposal Method

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

Precautions to be Taken in Handling and Storing Keep containers tightly closed when not in use and away from excessive heat and flame. DO NOT pressurize, cut, weld, solder, drill or grind the containers.

Other Precautions Store in an OSHA approved area for flammable materials.

Prepared by Samet Dy - Urethane Chemist

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Material Safety Data Sheet

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

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **Armor Top Resin**

COMMON NAME Polyester Polyol

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

SECTION II - PRODUCT COMPONENTS

| | CAS.# | OSHA PEL | ACGIH TLV |
|----------------------------|-------------|----------|-----------|
| Latent Aliphatic Polyamine | Proprietary | N.E. | N.E. |
| Triethylenediamine | Proprietary | N.E. | N.E. |

None Established

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

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|-------------------------|------|---|---------|
| Boiling Point | N.E. | Specific Gravity (H ₂ O = 1) | 0.8-0.9 |
| Vapor Pressure (mm Hg) | N.E. | Melting Point | N/A |
| Vapor Density (AIR = 1) | N/A | Evaporation rate (Butyl Acetate = 1) | N/A |

Volatile Organic Compounds = Zero grams/liter

Solubility in Water Reacts slowly with water

Appearance and Odor Pale yellow colored liquid. Amine odor.

SECTION IV - FIRE and EXPLOSION HAZARD DATA

| | | | | |
|---------------------------------|---------|------------------|-----|-----|
| Flash Point (Closed Cup Method) | > 200 F | Flammable Limits | LEL | UEL |
| | | | N/A | N/A |

Extinguishing Media Dry chemicals, carbon dioxide, foam, water spray.

Special Firefighting Procedures

Firefighters should wear full emergency equipment with self-contained breathing apparatus. Irritating gases may be generated by fire.

Cool exposed containers with cold water spray to prevent pressure buildup that may rupture the containers.

SECTION V - REACTIVITY DATA

| | | |
|-----------|----------|--|
| Stability | Unstable | Conditions to Avoid |
| | Stable | X Keep container closed when not in use. |

Incompatibility (Materials to Avoid) Strong oxidizers, alkaline materials and acids.

Hazardous Decomposition or Byproducts By Fire- carbon monoxide, carbon dioxide, aldehydes, nitrogen.

| | | |
|--------------------------|----------------|---|
| Hazardous Polymerization | May Occur | Conditions to Avoid |
| | Will Not Occur | X Uncontrolled reaction with epoxy resins. Avoid breathing fumes generated by hardener and epoxy mixture when not used within established pot life. |

SECTION VI - HEALTH HAZARD DATA

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

Signs and Symptoms of Exposure Irritation on skin.

Health Hazards (Acute and Chronic) Note: Persons with lung disorders or who are sensitized should not use this product.

ACUTE - Irritation on skin and dermatitis. Corrosive

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

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.

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 be still be worn. 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 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 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) **Armor Top Grit**

COMMON NAME WHITE ALUMINUM OXIDE

HAZARD RATING

0 = Least
1 = Slight
2 = Moderate
3 = High
4 = Extreme

Health 0

Flammability 0

Reactivity 0

Personal Protection G

SECTION II - PRODUCT COMPONENTS

CAS.#

OSHA PEL

ACGIH TLV

Aluminum Oxide 1344-28-1 5 mg/m³ (resp) 10 mg/m³

Other Oxides (Total) (SiO₂+Fe₂O₃+Na₂O+MgO+TiO₂)=1%

T.S.C.A. Status - O.K. on above component.

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

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|-------------------------|-----|---|------|
| Boiling Point | N/A | Specific Gravity (H ₂ O = 1) | 3.95 |
| Vapor Pressure (mm Hg) | N/A | Melting Point | 2070 |
| 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 Granular, White, Odorless

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

None Known.

Unusual Fire and Explosion Hazards

None Known.

SECTION V - REACTIVITY DATA

| | | |
|-----------|----------|---------------------|
| Stability | Unstable | Conditions to Avoid |
| | Stable | |

Incompatibility (Materials to Avoid) None known.

Hazardous Decomposition or Byproducts None Known.

| | | |
|--------------------------|----------------|---------------------|
| Hazardous Polymerization | May Occur | Conditions to Avoid |
| | Will Not Occur | |

SECTION VI - HEALTH HAZARD DATA

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

Signs and Symptoms of Exposure Temporary Inhalation Discomfort.

Health Hazards (Acute and Chronic)

ACUTE - None known other than possible temporary discomfort due to inhalation of dust concentration.

CHRONIC - Potential chronic respiratory distress/irritation. Can aggravate pre-existing lung conditions.

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

Medical Conditions Generally Aggravated by Exposure
None Known.

Emergency and First Aid Procedures

EYES - hold eyes apart and flush with clean water for 15 minutes. If irritation or redness develops and persists seek medical attention.

INHALATION - For inhalation discomfort move person to fresh air.

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 necessary. | Special | None Known |
| | Mechanical | Adequate for dusty environments | | |

Protective Gloves Wear gloves Eye Protector Safety goggles, do not wear contact lenses.

Other Protective Clothing or Equipment

NONE KNOWN.

Work/Hygienic Practices Avoid unnecessary formation of dust.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled

Non - Skid Grit may be swept or vacuumed for normal disposal.

Waste Disposal Method

Non - Skid Grit is not a hazardous waste under U.S. Federal RCRA regulations.

Precautions to be Taken in Handling and Storing

Same as given in Section VII (ventilation, gloves, and goggles.)

Other Precautions Dry powders can build static charges when subjected to friction.

Prepared by Samet Dy - Urethane Chemist

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Material Safety Data Sheet

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

Date Prepared 9/1/2008

SECTION I - IDENTIFICATION

IDENTITY (As Used on Label) Armor Top Colorant

COMMON NAME Pigment Additive

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

SECTION II - PRODUCT COMPONENTS

| | CAS.# | OSHA PEL | ACGIH TLV |
|---|------------|--|--------------------|
| Dipropylene glycol monomethyl ether acetate | 88917-22-0 | NE ¹ | NE |
| Titanium Dioxide | 13463-67-7 | 15mg/m ³ (Dus 10mmg/m ³) | |
| Red Iron Oxide | 1332-37-2 | 10mg/m ³ | 5mg/m ³ |
| Yellow Iron Oxide | 51274-00-1 | NE | NE |
| Carbon Black | 1333-86-4 | 3.5mg/m ³ (dus 3.5mg/m ³ (dust)) | |
| 1 not 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 | DPMA | 392°F | Specific Gravity (H ₂ O = 1) | 1.11 |
| Vapor Pressure (mm Hg) | 77 °F | 0.05 | Melting Point | N/A |
| Vapor Density (AIR = 1) | DPMA | 6.6 | Evaporation rate (Butyl Acetate = 1) | 0.015 |

Volatile Organic Compounds (VOC) = 74 grams/liter

Solubility in Water NOT SOLUBLE.

Appearance and Odor Clear, mild ester-like odor.

SECTION IV - FIRE and EXPLOSION HAZARD DATA

| | | | | |
|---------------------------------|-------|------------------|-----------|-----------|
| Flash Point (Closed Cup Method) | 186°F | Flammable Limits | LEL | UEL |
| | | N/A | 1.21 vol% | 5.35 vol% |

Extinguishing Media Dry Chemicals, CO₂, Universal Type Foam.

Special Firefighting Procedures

Wear full protective equipment including self-contained breathing apparatus. During a fire, HDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Closed container may explode when exposed to extreme heat or burst when contaminated with water (CO₂ evolved).

Unusual Fire and Explosion Hazards

Spills of this on hot fibrous insulations may lead to lowering of the autoignition temperatures resulting in possible spontaneous combustion

SECTION V - REACTIVITY DATA

| | | |
|-----------|----------|--|
| Stability | Unstable | Conditions to Avoid |
| | Stable | X Keep containers closed when not in use. Avoid static discharge. Flammable vapors released at elevated temps. |

Incompatibility (Materials to Avoid) Avoid oxidizers and phosphorus-containing materials.

Hazardous Decomposition or Byproducts Fire may yield carbon monoxide and/or carbon dioxide.

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

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 - prolonged skin exposure can cause irritation, dermatitis. Inhalation of vapors can cause nasal and respiratory irritation, dizziness, headache, nausea.

CHRONIC - prolonged or repeated exposure to vapors may cause lung damage as well as increased sensitivity.

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

Medical Conditions Generally Aggravated by Exposure

Asthma and other respiratory disorders(bronchitis, emphysema, 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.

****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 30CFR11 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 | Explosion proof fans when needed. |
| | 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

Shut off and eliminate all ignition sources. Keep people away. Add sand, earth or other absorbent to spill area. Ventilate confined spaces. Open windows and doors, minimize breathing vapors and skin contact. Keep spill out of sewers by diking. Observe precautions for volatile, flammable vapors from absorbed material.

Waste Disposal Method

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

Precautions to be Taken in Handling and Storing Keep containers tightly closed when not in use and away from excessive heat and flame. DO NOT pressurize, cut, weld, solder, drill or grind the containers.

Other Precautions Store in an OSHA approved area for flammable materials.

Prepared by Samet Dy - Urethane Chemist

PLEASE

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NOTE