

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

| | | |
|--|-------------------------------|-----------------|
| SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION | | |
| Identity (As Used on Label and List): Ultra Rock Product Class: UV Coating Emergency Telephone Number: 800-255-3924 Telephone Number for Information: 651-481-1900 Manufacturer's Name and Address: Multi-Clean® 600 Cardigan Road Shoreview, MN 55126 | | |
| SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS | | |
| Hazardous Components (Specific Chemical Identity): | | |
| Chemical | Common Name(s) | % |
| A | Acrylate Ester Monomer | 10 - 15 |
| B | Acrylated Amine | 15 - 20 |
| C | Acrylated Ester | 5 - 10 |
| D | Acrylated Polyol | 8 - 12 |
| E | Acrylated Epoxy Monomer Blend | 30 - 40 |
| F | Reactive Tertiary Amine | 8 - 12 |
| G | Photo Curing Agent | 5 - 10 |
| H | Inorganic Mineral Filler | 1 - 10 |
| SECTION III - HAZARDS IDENTIFICATION | | |
| Emergency Overview | | |
| Appearance and Odor: Violet, pourable liquid | | |
| Primary Hazards: Irritation, sensitization, spontaneous polymerization | | |
| Potential Health Hazards | | |
| Route(s) of Entry: Skin Absorption: X Ingestion: Inhalation: X | | |
| Eye: May cause irritation or sensitization. | | |
| Skin: May cause irritation or sensitization. | | |
| Ingestion: May be harmful if swallowed. | | |
| Inhalation: May cause irritation. | | |
| Signs and Symptoms of Exposure: Irritation, sensitization can be time delayed. | | |
| Chemical burns can be cause with prolonged exposure. Vapors can be irritating. | | |
| Carcinogenicity: NTP? N. Ap. IARC Monographs? N. Ap. | | |
| OSHA Regulated? N. Ap. | | |
| Target Organ (s): Some components have shown damage to blood cells, bone marrow, liver and kidneys in lab animal test. | | |
| Medical Conditions Generally Aggravated by Exposure: Pre-existing skin, eye or respiratory disorders may be aggravated by exposure to this product. | | |
| Health Hazards, Chronic: N. Av. | | |
| SECTION IV - FIRST AID MEASURES | | |
| Emergency and First Aid Procedures: | | |
| If Swallowed: Call a physician immediately. Drink lukewarm water. Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. Never give anything by mouth to an unconscious person. Eye Contact: Flush eyes with running water for at least 15 minutes, seek medical attention. Skin Contact: Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Do not reuse clothing unless completely cleaned. Note to Physician: Effects can be delayed 24 to 48 hours. | | |
| Inhalation: If ill effects occur form breathing vapors remove victim to fresh air and obtain medical attention. | | |
| Sources Used: Raw material data, general toxicology from trade for similar products. | | |
| SECTION V - FIRE FIGHTING MEASURES | | |
| Flammability: > 200°F Autoignition Temperature: N. Av. | | |
| Flash Point (method used): N. Av. | | |
| Flammable Limits: N. Av. LEL N. Av. UEL N. Av. | | |
| Extinguishing Media | | |
| Water? | Foam? X | Water Fog? X |
| Alcohol Foam? X | CO2? X | Dry Chemical? X |
| Vaporizing Liquid? X | Other? | |
| Special Fire Fighting Procedures: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exist. | | |
| Unusual Fire and Explosion Hazards: | | |
| High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and violent rupture of storage vessels or containers. | | |
| Avoid the use of a stream of water to control fires since frothing can occur. | | |
| TDG Flammability Classification: N. Av. | | |
| Sensitivity to Mechanical Impact: N. Av. | | |
| Sensitivity to Static Discharge: N. Av. | | |
| SECTION VI - ACCIDENTAL RELEASE MEASURES | | |
| Steps to be Taken in Case Material is Released or Spilled: | | |
| Spilled or released material may spontaneously polymerize and release heat/gases. Limit access to spill area. Extinguish all ignition sources and ventilate area. Wear protective clothing during cleanup. Dike and contain spill with inert materials. Collect spill with absorbent inert materials. Rinse area with strong detergent and water prevents washing from entering waterways. | | |
| SECTION VII - HANDLING AND STORAGE | | |
| Precautions to be Taken in Handling and Storing: Store in low light location at room temperature. Do not expose to cold or heat outside storage temperature. Keep containers tightly closed and away from heat, strong oxidizers, UV radiation, incompatible materials (see Section X). Store in original container. | | |
| Storage Temperature: 60 - 90°F | | |
| Other Precautions: Excessive heat can cause uncontrolled polymerization resulting in possibly rupturing container. Product should only be handled and used by qualified individuals | | |

| | | | | | |
|--|------------------------|-------------------|--------|--------|--------|
| SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION | | | | | |
| Respiratory Protection (Specify Types): | | | | | |
| Ventilation: Local Exhaust: Not required | Special: Not required | | | | |
| Mechanical (General): Not required | Other: | | | | |
| Protective Gloves: Impervious gloves (neoprene). | | | | | |
| Eye Protection: Approved safety goggles or glasses | | | | | |
| Footwear: Impervious covers | | | | | |
| Other Protective Clothing or Equipment: In application and curing product exposed skin should be protected from UV light and chemical contact. | | | | | |
| Work/Hygienic Practices: Wash exposed area thoroughly with soap and water after handling. Do not contaminate food or beverages with product. | | | | | |
| SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS | | | | | |
| Boiling Point: N. Av. | pH: N. Ap. | | | | |
| Specific Gravity (H2O) = 1: 1.099 | % Volatile: 0 | | | | |
| Vapor Density (Air = 1): N. Av. | Odor Threshold: N. Av. | | | | |
| Evaporation Rate (Butyl Acetate = 1): N. Ap. | Oil/Water Distribution | | | | |
| Solubility in Water: Neg | Coefficient: N. Av. | | | | |
| Vapor Pressure (MM HG): N. Av. | | | | | |
| Melting Point: N. Av. | | | | | |
| SECTION X - STABILITY AND REACTIVITY | | | | | |
| Stability: Unstable: X Stable: | | | | | |
| Conditions to Avoid: Temperature less than 35°F or over 95°F, exposure to light. | | | | | |
| Incompatibility (materials to avoid): Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron rust and strong bases. | | | | | |
| Hazardous Decomposition or By-products: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen. | | | | | |
| Hazardous Polymerization: May occur: X Will not occur: | | | | | |
| SECTION XI - TOXICOLOGICAL INFORMATION | | | | | |
| Chemical | OSHA PEL | ACGIH TLV | Recom. | LD50 | LC50 |
| A | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| B | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| C | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| D | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| E | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| F | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| G | N. Ap. | N. Ap. | N. Ap. | N. Av. | N. Av. |
| H | 15 mg/M3 dust | 15 mg/M3 partials | N. Av. | N. Av. | N. Av. |
| Teratogen, Mutagen, Reproductive Toxin Status: N. Av. | | | | | |
| Toxicologically Synergistic Products: N. Av. | | | | | |
| SECTION XII - ECOLOGICAL INFORMATION | | | | | |
| Ecotoxicological Information: N. Av. | | | | | |
| Chemical Fate Information: N. Av. | | | | | |
| SECTION XIII - DISPOSAL CONSIDERATIONS | | | | | |
| Waste Disposal Method: | | | | | |
| Based on knowledge of product and its raw materials it is unlikely that this product is a hazardous waste for Federal RCRA purposes. Recommended disposal, incinerator use biological treatment in accordance with Federal, State and Local regulations. | | | | | |
| RCRA Hazard Class: None | | | | | |
| SECTION XIV - TRANSPORT INFORMATION | | | | | |
| Shipping Classification: Paint, varnish or lacquer, N.O.I. | | | | | |
| UN Number: N. Ap. | | | | | |
| Packing Group: N. Ap. | | | | | |
| SECTION XV - PREPARATION DATA | | | | | |
| Prepared By: Mike Tarvin | | | | | |
| Telephone Number: 651-481-1900 | | | | | |
| Date: 12-09 | | | | | |
| SECTION XVI - REGULATORY INFORMATION | | | | | |
| US Federal Regulations | | | | | |
| TSCA Status: All ingredients listed | | | | | |
| CERCLA Reportable Quality: No | | | | | |
| SARA Title III | | | | | |
| Section 302 Extremely Hazardous Chemicals: None | | | | | |
| Section 311/312 Hazard Category: Reactive, acute, chronic, health hazard. | | | | | |
| Section 313 Toxic Chemicals: None | | | | | |
| State Regulations | | | | | |
| International Regulations | | | | | |
| WHMIS Controlled Product Hazard Class: D2B | | | | | |
| SECTION XVII - OTHER INFORMATION | | | | | |
| N. Ap. - Not Applicable; N.Av. - Not Available | | | | | |

NFPA SYSTEM

1. A. Health Hazard 1. A. Fire Hazard 2. A. Reactivity Hazard
THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.