SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Diamond Glaze 550 Part A

PRODUCT CODES: 341 A

MANUFACTURED FOR: Berkley Specialties, Inc. STREET ADDRESS: 5540 Thornspring Church Rd

CITY, STATE, ZIP: Dublin, VA 24084

INFORMATION PHONE: 724-483-9300

EMERGENCY PHONE: Chemtrec 800-424-9300

FAX PHONE: 724-483-9306

PREPARED BY: Harry Jackson

DATE REVISED: 9/15/05

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS** 

<u>INGREDIENT</u> <u>CAS NO.</u> <u>OSHA PEL</u> <u>ACGIH TLV</u> <u>OSHA STEL</u>

**WEIGHT %** 

Cycloaliphatic Diamine, NJTSRN=(31765300002) - 7031P NONE NONE NONE

A/k

\*\*\*NO TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372 ARE PRESENT. \*\*\*ORAL LD50 >2000MG/KG. PRODUCT IS ON TSCA INVENTORY.

PRODUCT CODE: 341

**SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES** 

APPEARANCE AND ODOR: AMBER CLEAR LIQUID WITH SLIGHT ODOR

BOILING POINT OR RANGE: N/A
VAPOR DENSITY (AIR = 1): Not available

SPECIFIC GRAVITY (H2O = 1): 1.1 EVAPORATION RATE: N/A

**SOLUBILITY IN WATER: NEGLIGIBLE** 

**SECTION 3 NOTES:** 

**SECTION 4: FIRE-FIGHTING MEASURES** 

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% by volume) LOWER: N/A

FLASH POINT: 200+F METHOD USED: SETA FLASH

**EXTINGUISHING MEDIA:** 

FOAM, ALCOHOL FOAM, CO2, WATER FOG SPECIAL FIRE FIGHTING PROCEDURES:

TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR FIRE FIGHTERS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

**NONE KNOWN** 

**SECTION 4 NOTES:** 

**SECTION 5: STABILITY AND REACTIVITY** 

STABILITY:

STABLE

**CONDITIONS TO AVOID (STABILITY):** 

AVOID CONTACT WITH OPEN FLAMES AND ALL SOURCES OF IGNITIONS AND SPARKS.

**INCOMPATIBILITY (MATERIAL TO AVOID):** 

AVOID CONTACT WITH STRONG OXIDIZING AGENTS OR MATERIALS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

PAGE 1 OF 6

CO, CO2, NOX, AMINES AND OTHER ALIPHATIC FRAGMENTS WHICH HAVE NOT BEEN DETERMINED.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

**SECTION 5 NOTES:** 

**SECTION 6: HAZARDS IDENTIFICATION** 

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMIBILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

FYFS:

HIGH VAPOR CONCENTRATIONS CAN CAUSE SEVERE IRRITATION TO THE EYES. NOSE OR THROAT.

SKIN:

CAN CAUSE BURNS TO THE SKIN.

INGESTION:

LIQUID CAN CAUSE SEVERE DAMAGE TO MUCOUS MEMBRANES IF SWALLOWED.

INHALATION:

HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT, NAUSEA AND DIZZINESS.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** 

PROLONGED OR REPEATED EXPOSURE MAY CAUSE ASTHMA AND SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES.

PRODUCT CODE: 341

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS

**CARCINOGENICITY** 

OSHA: NO NTP: NO IARC: NO

ADDITIONAL CARCINOGENICITY INFORMATION:

NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

#### **SECTION 7: FIRST AID MEASURES**

EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER LIDS, GET IMMEDIATE MEDICAL ASSISTANCE.

SKIN:

FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES AND REMOVE ALL CONTAMINATED CLOTHING IMMEDIATELY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS.

INGESTION:

DO NOT INDUCE VOMITING. DILUTE BY GIVING WATER OR MILK TO DRINK IF VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

**SECTION 7 NOTES:** 

**SECTION 8: RELEASE MEASURES** 

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID CONTACT WITH MATERIAL. WEAR THE APPROPRIATE SAFETY EQUIPMENT. STOP SPILL AT SOURCE, DYKE AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. TAKE UP REMAINDER WITH CLAY OR OTHER ABSORBANT AND PLACE IN DISPOSAL CONTAINERS.

**SECTION 8 NOTES:** 

SECTION 9: WASTE DISPOSAL

**WASTE DISPOSAL METHOD:** 

DISPOSE OF MATERIAL AS A HAZARDOUS WASTE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

**SECTION 10: HANDLING AND STORAGE** 

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES. OTHER PRECAUTIONS:

MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS OF ALL COMPONENTS TO BECOME FAMILIAR WITH ALL HAZARDS PRIOR TO USING THIS PRODUCT.

PRODUCT CODE: 341

**SECTION 10 NOTES:** 

### SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **RESPIRATORY PROTECTION:**

NIOSH APPROVED RESPIRATOR PROTECTION REQUIRED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. FOR EMERGENCIES A SELF-CONTAINED BREATHING APPARATUS OR A FULL FACE RESPIRATOR IS RECOMMENDED. VENTILATION:

AVOID BREATHING VAPORS. VENTILATION MUST BE SUFFICIENT TO CONTROL VAPORS.

**PROTECTIVE GLOVES:** 

IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.

**EYE PROTECTION:** 

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

CLEAN BODY COVERING CLOTHING AS WELL AS APRON FOOTWEAR OR OTHER EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL.

**WORK HYGIENIC PRACTICES:** 

**OBSERVE GENERAL GOOD HYGIENIC PRACTICES.** 

**SECTION 11 NOTES:** 

### **SECTION 12: DISCLAIMER**

DISCLAIMER: THE INFORMATION HERE IN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.

PRODUCT CODE: 341

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: **Diamond Glaze 550** 

PRODUCT CODES: 341 B

MANUFACTURED FOR: Berkley Specialties, Inc. STREET ADDRESS: 5540 Thornspring Church Rd

CITY, STATE, ZIP: Dublin, VA 24084

**INFORMATION PHONE: (540) 230-1331** 

EMERGENCY PHONE: Chemtrec 800-424-9300

FAX PHONE: (540) 980-7390

PREPARED BY: Harry Jackson

DATE REVISED: 9/15/05

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

OSHA PEL INGREDIENT CAS NO. **ACGIH TLV OSHA STEL** 

**WEIGHT % HOMOPOLYMER OF HDI** 28182-81-2 1mg/m3 NONE NONE NONE .005 PPM **HEXAMETHYLENE DIISOCYANTE (HDI)** 822-06-0 NONE

\*\*\*No toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. HDI: ORAL LD50>10,000 mg/kg (RATS), INHALATION LC50 RANGES FROM 137 TO 1150 mg/m3, EYE IRRITATION SCORE 54.6/110 FOR A 24 HOUR EXPOSURE, SKIN EXPOSURE- MODERATE IRRITANT IRRITATION SCORE 3.4/8 (RABBIT)

### **SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: PALE YELLOW LIQUID WITH NEGLIGIBLE ODOR

**BOILING POINT OR RANGE: N/A** VAPOR DENSITY (AIR = 1): Not available SPECIFIC GRAVITY (H2O = 1): 1.1

**EVAPORATION RATE: N/A** 

SOLUBILITY IN WATER: NEGLIGIBLE

**SECTION 3 NOTES:** 

### **SECTION 4: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, UPPER: N/A LOWER: N/A (% by volume)

FLASH POINT: >200F METHOD USED: SETA FLASH

**EXTINGUISHING MEDIA:** 

FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

ENTER CONFINED AREA WITH FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. DURING A FIRE, HDI VAPORS AND OTHER HIGHLY TOXIC VAPORS MAY BE GENERATED. WATER OR EXTREME HEAT MAY CAUSE CONTAINERS TO EXPLODE.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** 

WATER CONTAMINATION MAY CAUSE THE GENERATION OF CO2 AND CAUSE CONTAINER TO BURST OR EXPLODE. EXTREME HEAT MAY CAUSE CONTAINER TO EXPLODE. HAZARDOUS DECOMPOSITION PRODUCTS EVOLVED IN A FIRE MAY BE IRRITATING OR TOXIC.

**SECTION 4 NOTES:** 

### **SECTION 5: STABILITY AND REACTIVITY**

STABILITY:

STABLE

**CONDITIONS TO AVOID (STABILITY):** 

AVOID EXCESSIVE HEAT OR OPEN FLAMES AS WELL AS ALL SOURCES OF IGNITIONS SUCH AS SPARKS, HEATERS, STATIC DISCHARGES, ETC.

PRODUCT CODE: 341

INCOMPATIBILITY (MATERIAL TO AVOID):

AVOID WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS, AND SURFACE ACTIVE COMPOUNDS. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

MAY FORM TOXIC CHEMICALS, CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, HCN AND HDI.

**HAZARDOUS POLYMERIZATION:** 

MOISTURE OR MATERIALS THAT REACT WITH ISOCYANATES AND TEMPERATURES ABOVE 400 DEGREES F MAY CAUSE POLYMERIZATION.

**SECTION 5 NOTES:** 

#### **SECTION 6: HAZARDS IDENTIFICATION**

HMIS HAZARD CLASSIFICATION

HEALTH: 3 FLAMMIBILITY: 1 REACTIVITY: 1 PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

FYFS

CAN CAUSE SEVERE IRRITATION ,REDNESS, TEARING, OR BLURRED VISION AS WELL AS CORNEAL OPACITY AND CONJUNTIVITIS.

SKIN:

MAY CAUSE IRRITATION, DEFATTING AND DERMATTITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITTING, DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. CAN CAUSE CORROSIVE ACTION TO THE MUCOUS MEMBRANES AND DIGESTIVE TRACTS.

INHALATION:

CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, HEADACHE, AND POSSIBLE UNCONSCIOUSNESS. BURNING SENSATION TO MUCOUS MEMBRANES, SHORTNESS OF BREATH AND FLU LIKE SYMPTOMS MAY OCCUR.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** 

CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATIONS OF VAPOR. OVER-EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES. OVEREXPOSURE CAN POSSIBLY CAUSE ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE, OR EYE DAMAGE. MAY CAUSE ASTHMA OR OTHER RESPIRATORY DISORDERS, BRONCHITIS, EMPHYSEMA, HYPERACTIVITY, AND ECZEMA.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS

**CARCINOGENICITY** 

OSHA: NO NTP: NO IARC: NO

ADDITIONAL CARCINOGENICITY INFORMATION: NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

### **SECTION 7: FIRST AID MEASURES**

EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ASSISTANCE.

SKIN:

FOR EXTREME EXPOSURE USE A SAFETY SHOWER IMMEDIATELY. WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROMPTLY.

INGESTION:

DO NOT INDUCE VOMITING KEEP PERSON WARM AND CONSULT A PHYSCIAN IMMEDIATELY. GIVE 1-2 CUPS OF MILK OR WATER TO DRINK.

INHALATION:

REMOVE TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY. OBTAIN MEDICAL ASSISTANCE. ASTHMATIC TYPE SYMPTOMS MAY OCCUR IMMEDIATELY OR BE DELAYED FOR SEVERAL HOURS.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

**SECTION 7 NOTES:** 

**SECTION 8: RELEASE MEASURES** 

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. REMOVE ALL SOURCES OF IGNITIONS. REMOVE EXCESS WITH SPARK PROOF EQUIPMENT, AND THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. CONTAINED AIR RESPIRATOR MAY BE NECESSARY. SECTION 8 NOTES:

PRODUCT CODE: 341

**SECTION 9: WASTE DISPOSAL** 

#### **WASTE DISPOSAL METHOD:**

DISPOSE OF MATERIAL AS A HAZARDOUS WASTE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

### **SECTION 10: HANDLING AND STORAGE**

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN COOL DRY PLACE, SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING THE TOILET FACILITIES. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.

### **OTHER PRECAUTIONS:**

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CANNOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEROF. WEAR APPROPRIATE SAFETY EQUIPMENT AND RESPIRATOR AT ALL TIMES WHEN VENTILATION IS NOT SUFFICIENT TO CONTROL VAPORS. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 CFR 1910.134). WHEN SPRAYING MATERIAL AVOID EXPOSURE TO ALL MISTS GENERATED BY USING AIR SUPPLIED RESPIRATOR.

**SECTION 10 NOTES:** 

### SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **RESPIRATORY PROTECTION:**

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER-EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. ENGINEERING OR ADMINISTRATIVE MEASURES SHOULD BE TAKEN TO REDUCE THE RISK & EXPOSURE. USE A POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR WHEN EXCEEDING TLV'S OR IF HDI MONOMER CONCENTRATIONS EXCEED ACCEPTABLE LIMITS OR WHEN SPRAYING MATERIAL.

#### **VENTILATION**

EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORN CONCENTRATIONS OF HDI BELOW THEIR TLV AND MGL MAXIMUM. REFERS TO PATTY'S INDUSTRIAL HYGIENE & TOXICOLOGY- VOLUME 1 (3<sup>RD</sup> EDITION) CHAPTER 17 AND VOLUME III (1<sup>ST</sup> EDITION) CHAPTER 3 FOR DETAILS.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OF RUBBER.

**EYE PROTECTION:** 

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS. DO NOT WEAR CONTACT LENSES WHEN USING THIS PRODUCT.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

CLEAN BODY COVERING CLOTHING AS WELL AS APRON FOOTWEAR OR OTHER EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL.

WORK HYGIENIC PRACTICES:

**OBSERVE GENERAL GOOD HYGIENIC PRACTICES.** 

**SECTION 11 NOTES:** 

### **SECTION 12: DISCLAIMER**

DISCLAIMER: THE INFORMATION HERE IN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.