

MATERIAL SAFETY DATA SHEET

FILE NO.: 01

SaniGLAZE CONTAMINANT REMOVER

MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CONTAMINANT REMOVER
SYNONYMS: None
PRODUCT CODES: 01-01-001

PRODUCT USE: Tile and grout cleaning and preparation

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	>50	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Ethanolamine	141-43-5	<7	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		3	6
NIOSH REL - TWA:		3	8
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Sodium Hydroxide	1310-73-2	<5	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		---	2
NIOSH REL - TWA:		---	5

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY:

Inhalation: Yes (mists)
Skin: Yes
Ingestion: Yes
Eyes: Yes

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POTENTIAL HEALTH EFFECTS:

Inhalation: If sprayed or misted may cause chemical pneumonitis, irritation, or chemical burns.
Skin: Irritating and corrosive. Prolonged contact may cause dermatitis, drying of skin or tissue damage.
Ingestion: Do not take internally. Corrosive and toxic if ingested. May cause burning, irritation of mouth and throat, nausea, gastrointestinal distress or diarrhea.
Eyes: May cause eye irritation, chemical burns and possible permanent tissue damage or blindness.

ACUTE HEALTH HAZARDS: Liquid is corrosive to tissue.

CHRONIC HEALTH HAZARDS: Liquid is corrosive to tissue.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Contact or breathing mists may exacerbate existing skin or respiratory disorders.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting. Drink 3-4 glasses of citrus juice or water, and call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None

LOWER: None

FLASH POINT: °F: None
°C: None

METHOD USED: None

AUTOIGNITION TEMPERATURE: °F: None
°C: None

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NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 1

PROTECTION:

EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Liquid, vapors and mists are corrosive. Wear self-contained breathing apparatus and full protective gear for fires that involve this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: None

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

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RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

EYE PROTECTION: Safety glasses (ANSI Z87.1) or approved equivalent as necessary to minimize eye contact hazards.

SKIN PROTECTION: Neoprene or other materials may be used if there is documented evidence of compatibility.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, light amber liquid
ODOR: Mild "soap" odor
PHYSICAL STATE: Liquid
pH AS SUPPLIED:
pH (Other):
BOILING POINT: >212 °F
MELTING POINT: <32 °F
FREEZING POINT: °F
VAPOR PRESSURE (mmHg): Same as water.
VAPOR DENSITY (AIR = 1): Same as water
SPECIFIC GRAVITY (H₂O = 1): 1.09
EVAPORATION RATE(H₂O = 1): >1
SOLUBILITY IN WATER: Water miscible
PERCENT SOLIDS BY WEIGHT:
PERCENT VOLATILE (BY WT):

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

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MSDS DATE: 10/15/03

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS: Corrosive (concentrated, undiluted form)

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Corrosive liquid, Basic, Inorganic, N.O.S. (Contains Sodium Hydroxide and ethanalamine), 8, PG III
HAZARD CLASS: 8
ID NUMBER: UN 3266
PACKING GROUP: III
LABEL STATEMENT: Corrosive

OTHER AGENCIES:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

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SaniGLAZE CONTAMINANT REMOVER

MSDS DATE: 10/15/03

Section 304: Hazardous releases reporting not required
Section 311: Reporting is required if inventory exceeds the threshold planning quantity
Section 312: Inventory data reporting is not required
Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET
SaniGLAZE GEL CONTAMINANT REMOVER

FILE NO.: 02
MSDS DATE: 3/6/07

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GEL CONTAMINANT REMOVER
SYNONYMS: None
PRODUCT CODES: 01-02-001/GEL

PRODUCT USE: Wall, baseboard and tile surface cleaning and preparation

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 115 Park Street
Jacksonville, Florida 32204
EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: none

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	>90	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Sodium Hydroxide	1310-73-2	<5	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		---	2
		---	5
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Ethanolamine	141-43-5	<1	
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		6	
		6	

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes (mists)
Skin: Yes
Ingestion: Yes

MATERIAL SAFETY DATA SHEET

FILE NO.: 02

SaniGLAZE GEL CONTAMINANT REMOVER

MSDS DATE: 3/6/07

Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: If sprayed or misted may cause chemical pneumonitis, irritation, or chemical burns.
Skin: Irritating and corrosive. Prolonged contact may cause dermatitis, drying of skin or tissue damage.
Ingestion: Do not take internally. Corrosive and toxic if ingested. May cause burning, irritation of mouth and throat, nausea, gastrointestinal distress or diarrhea.
Eyes: May cause eye irritation, chemical burns and possible permanent tissue damage or blindness.

ACUTE HEALTH HAZARDS: Liquid is corrosive to tissue.

CHRONIC HEALTH HAZARDS: Liquid is corrosive to tissue.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Contact or breathing mists may exacerbate existing skin or respiratory disorders.

CARCINOGENICITY

OSHA Regulated: No
OTHER: None

ACGIH: No

NTP: No

IARC Monographs: No

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting. Drink 3-4 glasses of citrus juice or water, and call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
LOWER: None

FLASH POINT: °F: None

METHOD USED: None

AUTOIGNITION TEMPERATURE: °F: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 02

SaniGLAZE GEL CONTAMINANT REMOVER

MSDS DATE: 3/6/07

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 1

PROTECTION:

EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Liquid, vapors and mists are corrosive. Wear self-contained breathing apparatus and full protective gear for fires that involve this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: None

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

MATERIAL SAFETY DATA SHEET

FILE NO.: 02

SaniGLAZE GEL CONTAMINANT REMOVER

MSDS DATE: 3/6/07

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

EYE PROTECTION: Safety glasses (ANSI Z87.1) or approved equivalent as necessary to minimize eye contact hazards.

SKIN PROTECTION: Neoprene or other materials may be used if there is documented evidence of compatibility.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, light amber liquid
ODOR: Mild "soap" odor
PHYSICAL STATE: Liquid
pH AS SUPPLIED:
pH (Other):
BOILING POINT: >212 °F
MELTING POINT: <32 °F
FREEZING POINT: °F
VAPOR PRESSURE (mmHg): Same as water
VAPOR DENSITY (AIR = 1): Same as water
SPECIFIC GRAVITY (H₂O = 1): 1.09
EVAPORATION RATE(H₂O = 1): >1
SOLUBILITY IN WATER: Water miscible
PERCENT SOLIDS BY WEIGHT:
PERCENT VOLATILE (BY WT):

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

MATERIAL SAFETY DATA SHEET
SaniGLAZE GEL CONTAMINANT REMOVER

FILE NO.: 02
MSDS DATE: 3/6/07

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS: Corrosive (concentrated, undiluted form)

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Corrosive liquid, Basic, Inorganic, NOS (Contains Sodium Hydroxide and ethanalamine), 8, UN3266, PG III
HAZARD CLASS: 8
ID NUMBER: UN3266
PACKING GROUP: III
LABEL STATEMENT: Corrosive

OTHER AGENCIES:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

MATERIAL SAFETY DATA SHEET

FILE NO.: 02

SaniGLAZE GEL CONTAMINANT REMOVER

MSDS DATE: 3/6/07

Section 311: Reporting is required if inventory exceeds the threshold planning quantity
Section 312: Inventory data reporting is not required
Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

FILE NO.: 03

SaniGLAZE TILE AND GROUT PREP

MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TILE AND GROUT PREP
SYNONYMS: None
PRODUCT CODES: 01-01-002

PRODUCT USE: Tile surface cleaning and preparation

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204
EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: none

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Hydrochloric Acid	7647-01-0	>26	
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		5	7
NIOSH REL - TWA:		5	7
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Sulfamic Acid	5329-14-6	<9	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Hydroxyacetic Acid	79-14-1	<6	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes (mists)
Skin: Yes
Ingestion: Yes

MATERIAL SAFETY DATA SHEET

FILE NO.: 03

SaniGLAZE TILE AND GROUT PREP

MSDS DATE: 10/15/03

Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: Breathing mists or vapors may irritate the throat and lungs.

Skin: Irritating. Prolonged contact may result in chemical burns.

Ingestion: Do not take internally. May cause burning, irritation of mouth and throat, nausea, gastrointestinal distress or diarrhea.

Eyes: May cause eye irritation, mild to severe chemical burns and possible permanent tissue damage or blindness.

ACUTE HEALTH HAZARDS: Liquid is corrosive to tissue.

CHRONIC HEALTH HAZARDS: Liquid is corrosive to tissue.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Contact or breathing mists may exacerbate existing skin or respiratory disorders.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting. Drink 3-4 glasses of milk or water, and call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None

LOWER: None

FLASH POINT: °F: None

METHOD USED: None

AUTOIGNITION TEMPERATURE: °F: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 03

SaniGLAZE TILE AND GROUT PREP

MSDS DATE: 10/15/03

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 1

PROTECTION:

EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Liquid, vapors and mists are corrosive. Wear self-contained breathing apparatus and full protective gear for fires that involve this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product can react with metals and release hazardous quantities of hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve hydrogen gas or sulfur dioxide (SO₂) if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: None

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

MATERIAL SAFETY DATA SHEET

FILE NO.: 03

SaniGLAZE TILE AND GROUT PREP

MSDS DATE: 10/15/03

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

EYE PROTECTION: Safety glasses (ANSI Z87.1) or approved equivalent as necessary to minimize eye contact hazards.

SKIN PROTECTION: Neoprene or other materials may be used if there is documented evidence of compatibility.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, amber liquid
ODOR: Slight astringent odor
PHYSICAL STATE: Liquid
pH AS SUPPLIED:
pH (Other):
BOILING POINT: >212 °F
MELTING POINT: <32 °F
FREEZING POINT: °F
VAPOR PRESSURE (mmHg): Same as water
VAPOR DENSITY (AIR = 1): Same as water
SPECIFIC GRAVITY (H₂O = 1): 1.10
EVAPORATION RATE(H₂O = 1): >1
SOLUBILITY IN WATER: Water miscible
PERCENT SOLIDS BY WEIGHT:
PERCENT VOLATILE (BY WT):

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Metal containers, strong oxidizers, strong alkalis

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

MATERIAL SAFETY DATA SHEET

FILE NO.: 03

SaniGLAZE TILE AND GROUT PREP

MSDS DATE: 10/15/03

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS: Corrosive (concentrated, undiluted form)

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Corrosive liquid, Acidic, Inorganic, N.O.S. (Contains Sulfamic acid and Hydrochloric acid), 8, PG III
HAZARD CLASS: 8
ID NUMBER: UN 3264
PACKING GROUP: III
LABEL STATEMENT: Corrosive

OTHER AGENCIES:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

MATERIAL SAFETY DATA SHEET

FILE NO.: 03

SaniGLAZE TILE AND GROUT PREP

MSDS DATE: 10/15/03

Section 304: Hazardous releases reporting not required
Section 311: Reporting is required if inventory exceeds the threshold planning quantity
Section 312: Inventory data reporting is not required
Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

FILE NO.: 04

SaniGLAZE GLAZING COMPOUND – STANDARD BASE

MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GLAZING COMPOUND – STANDARD BASE
SYNONYMS: None
PRODUCT CODES: 01-01-003/L and 01-02-002L/D

PRODUCT USE: Grout glazing compound

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: none

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Glycol ether DPNB	111-46-6	<1	No
OSHA PEL-TWA:		ppm	mg/m3
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: Yes
Ingestion: Yes
Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Irritation and dermatitis
Ingestion: Do not take internally. May cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.
Eyes: May cause severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS:

MATERIAL SAFETY DATA SHEET

FILE NO.: 04

SaniGLAZE GLAZING COMPOUND – STANDARD BASE

MSDS DATE: 10/15/03

CHRONIC HEALTH HAZARDS:

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting. Call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly combustible - IIIB

FLASH POINT: 200°F

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: °F: None

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear for fires that involve this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material does not support combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

MATERIAL SAFETY DATA SHEET

FILE NO.: 04

SaniGLAZE GLAZING COMPOUND – STANDARD BASE

MSDS DATE: 10/15/03

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : General mechanical ventilation or local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. When spraying this material use a NIOSH-approved cartridge respirator suitable to keep airborne mists and vapor concentrations below the TWA/TLV. When used in poorly-ventilated areas, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons and protective clothing whenever possible to prevent skin contact. Use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewash stations and safety showers in the workplace are

MATERIAL SAFETY DATA SHEET

FILE NO.: 04

SaniGLAZE GLAZING COMPOUND – STANDARD BASE

MSDS DATE: 10/15/03

recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: >212 °F

MELTING POINT:

FREEZING POINT: °F

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H₂O = 1):

EVAPORATION RATE (H₂O = 1): 42.92

SOLUBILITY IN WATER:

PERCENT SOLIDS (BY WT): 66.04

PERCENT VOLATILE (BY VOL): 40.78

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong acids, and oxidizing materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 04

SaniGLAZE GLAZING COMPOUND – STANDARD BASE

MSDS DATE: 10/15/03

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

OTHER AGENCIES:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 04

SaniGLAZE GLAZING COMPOUND – STANDARD BASE

MSDS DATE: 10/15/03

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

FILE NO.: 05

SaniGLAZE GLAZING COMPOUND – ACCENT BASE

MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GLAZING COMPOUND – ACCENT BASE
SYNONYMS: None
PRODUCT CODES: 01-01-003/A and 01-02-002A/D

PRODUCT USE: Grout glazing compound

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: none

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Glycol ether DPNB	111-46-6	<1	No
OSHA PEL-TWA:		ppm	mg/m3
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: Yes
Ingestion: Yes
Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Irritation and dermatitis
Ingestion: Do not take internally. May cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.
Eyes: May cause severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS:

MATERIAL SAFETY DATA SHEET

FILE NO.: 05

SaniGLAZE GLAZING COMPOUND – ACCENT BASE

MSDS DATE: 10/15/03

CHRONIC HEALTH HAZARDS:

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting. Call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly combustible - IIIB

FLASH POINT: 200°F

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: °F: None

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear for fires that involve this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material does not support combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

MATERIAL SAFETY DATA SHEET

FILE NO.: 05

SaniGLAZE GLAZING COMPOUND – ACCENT BASE

MSDS DATE: 10/15/03

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : General mechanical ventilation or local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. When spraying this material use a NIOSH-approved cartridge respirator suitable to keep airborne mists and vapor concentrations below the TWA/TLV. When used in poorly-ventilated areas, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons and protective clothing whenever possible to prevent skin contact. Use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewash stations and safety showers in the workplace are

MATERIAL SAFETY DATA SHEET

FILE NO.: 05

SaniGLAZE GLAZING COMPOUND – ACCENT BASE

MSDS DATE: 10/15/03

recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: >212 °F

MELTING POINT:

FREEZING POINT: °F

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H₂O = 1):

EVAPORATION RATE (H₂O = 1): 42.92

SOLUBILITY IN WATER:

PERCENT SOLIDS (BY WT): 66.04

PERCENT VOLATILE (BY VOL): 40.78

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong acids, and oxidizing materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 05

SaniGLAZE GLAZING COMPOUND – ACCENT BASE

MSDS DATE: 10/15/03

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

OTHER AGENCIES:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 05

SaniGLAZE GLAZING COMPOUND – ACCENT BASE

MSDS DATE: 10/15/03

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET
SaniGLAZE GLAZING COMPOUND - HARDNER

FILE NO.: 06
MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GLAZING COMPOUND – HARDNER
SYNONYMS: None
PRODUCT CODES: 01-02-004

PRODUCT USE: Grout glazing compound additive

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: none

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Epoxy Silane	2530-83-8	99.80	No
OSHA PEL-TWA:		<u>ppm</u> 200	<u>mg/m3</u>

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: Yes
Ingestion: Yes
Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Irritation and dermatitis
Ingestion: Do not take internally. May cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.
Eyes: May cause severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS:

MATERIAL SAFETY DATA SHEET

FILE NO.: 06

SaniGLAZE GLAZING COMPOUND - HARDNER

MSDS DATE: 10/15/03

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention without delay. Treat for methanol poisoning as this material produces methanol as it reacts with water. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor according to weight.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly combustible - IIIB

FLASH POINT:

METHOD USED:

AUTOIGNITION TEMPERATURE:

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear for fires that involve this material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material does not support combustion.

MATERIAL SAFETY DATA SHEET

FILE NO.: 06

SaniGLAZE GLAZING COMPOUND - HARDNER

MSDS DATE: 10/15/03

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Eliminate ignition sources, provide good ventilation, dike spill area and add absorbent material or sawdust to spilled liquid.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : General mechanical ventilation or local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. When spraying this material use a NIOSH-approved cartridge respirator suitable to keep airborne mists and vapor concentrations below the TWA/TLV. When used in poorly-ventilated areas, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons and protective clothing whenever possible to prevent skin contact. Use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewash stations and safety showers in the workplace are recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 06

SaniGLAZE GLAZING COMPOUND - HARDNER

MSDS DATE: 10/15/03

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: Not applicable

MELTING POINT:

FREEZING POINT: °F

VAPOR PRESSURE (mmHg): 1.0 @ 20 °C

VAPOR DENSITY (AIR = 1):

SPECIFIC GRAVITY (H₂O = 1):

EVAPORATION RATE (H₂O = 1): Not applicable

SOLUBILITY IN WATER:

PERCENT SOLIDS (BY WT): 99.8

PERCENT VOLATILE (BY VOL): 0.02

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong acids, and oxidizing materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Collect absorbent/spilled liquid mixture into metal containers. Consult local, state, and federal hazardous waste regulations before disposing in an approved hazardous waste landfill.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

OTHER AGENCIES:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

MATERIAL SAFETY DATA SHEET
SaniGLAZE GLAZING COMPOUND - HARDNER

FILE NO.: 06
MSDS DATE: 10/15/03

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

SaniGLAZE DRY SOLIDS

FILE NO.: 07

MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DRY SOLIDS
SYNONYMS: None
PRODUCT CODES: 01-02-003/2-oz. and 01-02-003/8-oz.

PRODUCT USE: Grout glazing compound additive

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Silica Crystalline - Quartz	14808-60-7	90 – 100%	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u> Crystalline Quartz (respirable): TWA 250 mppcf/(%SiO ₂ +5); TWA 10 mg/m ³ /(%SiO ₂ + 2)
NIOSH REL - TWA:			Quartz (total dust): TWA 30 mg/m ³ /(%SiO ₂ + 2) 0.05

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING! HARMFUL IF INHALED. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE EYE IRRITATION. INHALATION CANCER HAZARD. CONTAINS QUARTZ WHICH CAN CAUSE CANCER. Risk of cancer depends upon duration and level of exposure.

ROUTES OF ENTRY:

Inhalation: Yes
Skin: Yes
Ingestion: Yes
Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: Shortness of breath, coughing, reduced pulmonary functions. PROLONGED INHALATION OF RESPIRABLE SILICA WILL RESULT IN PERMANENT LUNG DAMAGE OR SILICOSIS.
Skin: May cause irritation.

MATERIAL SAFETY DATA SHEET

FILE NO.: 07

SaniGLAZE DRY SOLIDS

MSDS DATE: 10/15/03

Ingestion: Do not take internally. May cause gastrointestinal irritation or discomfort.
Eyes: May cause severe irritation.

ACUTE/CHRONIC HEALTH HAZARDS: INHALATION: Silicosis. Exposure to respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of lungs. Silicosis may be progressive; it may lead to disability and death.

CANCER: There is evidence that respirable crystalline silica is a carcinogen.

SCLERODERMA: There is evidence that exposure to respirable silica is associated with increased incidence of scleroderma, an immune system disorder manifested by fibrosis (scarring) of lungs, skin and other internal organs.

AGGRAVATION OF PRE-EXISTING CONDITIONS: The condition of individuals with lung disease (e.g. bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure. Individuals with Silicosis are predisposed to develop Tuberculosis.

CARCINOGENICITY

OSHA Regulated: Yes **ACGIH:** Yes **NTP:** Yes **IARC Monographs:** Yes
OTHER: SUSPECTED CANCER AGENT.

SECTION 3 NOTES: Carcinogenicity Explanation - SILICA, CRYSTALLINE - QUARTZ: IARC MONOGRAPHS, VOL 68, PG 41, 1997: GRP 1. NTP 8TH ANNUAL REPORT ON CARCINOGENS, 1998: REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN.

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.
SKIN: Wash affected area with soap and water. If irritation persists, seek medical attention.
INGESTION: Give one or two glasses of water. If discomfort persists, see physician.
INHALATION: No specific first aid necessary since the adverse health effects associated with exposure to crystalline silica (quartz) result from chronic exposures. If there is a gross inhalation, evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: None

FLASH POINT: None

METHOD USED: None

AUTOIGNITION TEMPERATURE: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 07

SaniGLAZE DRY SOLIDS

MSDS DATE: 10/15/03

NFPA HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION: E

EXTINGUISHING MEDIA: None. May be used to extinguish fires.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material does not support combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Clean up spill using approved, dustless methods (water or vacuum) to minimize generation of respirable silica particles.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid generating dust. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : General mechanical ventilation or local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. Use a NIOSH-approved respirator appropriate for exposure to crystalline silica.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

MATERIAL SAFETY DATA SHEET

FILE NO.: 07

SaniGLAZE DRY SOLIDS

MSDS DATE: 10/15/03

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Use impermeable aprons and protective clothing whenever possible to prevent skin contact. Use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES:

Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewash stations and safety showers in the workplace are recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Fine-grained sand
ODOR:	None
PHYSICAL STATE:	Solid
pH AS SUPPLIED:	Not applicable
pH (Other):	Not applicable
BOILING POINT:	4046 °F
MELTING POINT:	Not applicable
FREEZING POINT:	Not applicable
VAPOR PRESSURE (mmHg):	None
VAPOR DENSITY (AIR = 1):	None
SPECIFIC GRAVITY (H ₂ O = 1):	2.65
EVAPORATION RATE (H ₂ O = 1):	Not applicable
SOLUBILITY IN WATER:	None
PERCENT SOLIDS (BY WT):	100
PERCENT VOLATILE (BY VOL):	0

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Avoid contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, oxygen difluoride - may cause fires.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, oxygen difluoride - may cause fires.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Silica will dissolve in hydrofluoric acid and produce a corrosive gas - silicon tetrafluoride.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

MATERIAL SAFETY DATA SHEET

SaniGLAZE DRY SOLIDS

FILE NO.: 07

MSDS DATE: 10/15/03

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The major concern associated with exposure to respirable crystalline silica is silicosis, caused by inhalation and retention of respirable crystalline silica dust. Chronic silicosis can occur after many years of exposure to relatively low levels of airborne respirable crystalline silica dust.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Crystalline silica (quartz) is not ecotoxic, i.e., there is no data which suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Packaging and product may be landfilled; however, material should be covered to minimize generation of airborne dust. Crystalline silica (quartz) is not classified as a hazardous waste under RCRA regulations at 40 CFR 261 et. seq. Disposal must be in accordance with federal, state and local regulations.

RCRA HAZARD CLASS: None

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: None
HAZARD CLASS: None
ID NUMBER: None
PACKING GROUP: None
LABEL STATEMENT: None

OTHER AGENCIES: None

SECTION 14 NOTES: Crystalline silica (quartz) is not a hazardous material for the purpose of transportation under the U.S. Department Of Transportation Table of Hazardous Materials, 49 CFR 172.101.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Hazardous substance release reporting not required
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
Setion 302: EHS reporting not required

MATERIAL SAFETY DATA SHEET

FILE NO.: 07

SaniGLAZE DRY SOLIDS

MSDS DATE: 10/15/03

Section 304: Hazardous releases reporting not required
Section 311: Reporting is not required
Section 312: Inventory data reporting is not required
Section 313: Emissions and release reporting is not required

STATE REGULATIONS: **CALIFORNIA PROPOSITION 65** - Crystalline silica (quartz) is classified as a substance known to the state of California to be a carcinogen.

INTERNATIONAL REGULATIONS: Not applicable

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

DISCLAIMER: SaniGLAZE International, LLC and MACTEC Engineering and Consulting, Inc. provide the information contained herein in good faith but make no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET
SaniGLAZE CLEAN UP SOLUTION - LOW VOC

FILE NO.: 08A
MSDS DATE: 5/31/07

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CLEAN UP SOLUTION - LOW VOC
SYNONYMS: None
PRODUCT CODES: 01-01-004

PRODUCT USE: Tile surface cleaning and preparation

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 115 Park Street
Jacksonville, Florida 32204
EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Acetone	67-64-1	<10	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		500	Not established
NIOSH REL - TWA:		500	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Isopropanol	67-63-0	~5	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		400	Not established
NIOSH REL - TWA:		400	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Butyl Carbitol	112-34-5	<5	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		---	Not established
NIOSH REL - TWA:		---	Not established

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY:
Inhalation: Yes (mists)
Skin: Yes
Ingestion: Yes
Eyes: Yes

MATERIAL SAFETY DATA SHEET

FILE NO.: 08A

SaniGLAZE CLEAN UP SOLUTION - LOW VAC

MSDS DATE: 5/31/07

Inhalation: Effects from inhalation of mists and vapors vary from mild to moderate irritation of the upper respiratory tract, depending on severity of exposure. Abuse or excessive inhalation of vapors may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects.

Skin: Minimally irritating. Prolonged contact may cause dermatitis, drying of skin.

Ingestion: Do not take internally. May cause nausea, gastrointestinal distress or diarrhea.

Eyes: May cause temporary eye irritation.

ACUTE HEALTH HAZARDS: Similar compounds are essentially non-toxic.

CHRONIC HEALTH HAZARDS: Similar compounds are essentially non-toxic.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Contact or breathing mists may exacerbate existing skin or respiratory disorders.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse. Discard contaminated leather articles.

INGESTION: DO NOT induce vomiting. Drink 3-4 glasses of milk or water, and call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None

LOWER: None

FLASH POINT: °F: None
°C: None

METHOD USED: None

AUTOIGNITION TEMPERATURE: °F: None
°C: None

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

MATERIAL SAFETY DATA SHEET

FILE NO.: 08A

SaniGLAZE CLEAN UP SOLUTION - LOW VAC

MSDS DATE: 5/31/07

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: None

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

EYE PROTECTION: Safety glasses (ANSI Z87.1) or approved equivalent as necessary to minimize eye contact hazards.

MATERIAL SAFETY DATA SHEET

FILE NO.: 08A

SaniGLAZE CLEAN UP SOLUTION - LOW VAC

MSDS DATE: 5/31/07

SKIN PROTECTION: Neoprene or other materials may be used if there is documented evidence of compatibility.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Slightly hazy liquid
ODOR: Faint banana-like odor
PHYSICAL STATE: Liquid
pH AS SUPPLIED:
pH (Other):
BOILING POINT: >215 °F
MELTING POINT: <32 °F
FREEZING POINT: °F
VAPOR PRESSURE (mmHg): ~5
VAPOR DENSITY (AIR = 1): ~1
SPECIFIC GRAVITY (H2O = 1): 0.97
EVAPORATION RATE(H2O = 1): >1
SOLUBILITY IN WATER: Water miscible
PERCENT SOLIDS BY WEIGHT:
PERCENT VOLATILE (BY WT):

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Compound, Cleaning liquid (non-hazardous)
HAZARD CLASS: None
ID NUMBER: None
PACKING GROUP: None
LABEL STATEMENT: None

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

MATERIAL SAFETY DATA SHEET

FILE NO.: 08A

SaniGLAZE CLEAN UP SOLUTION - LOW VAC

MSDS DATE: 5/31/07

STATE REGULATIONS: State Right to Know

California Proposition 65: No components of this product appear on the Prop 65 Chemical List.. Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified. Pennsylvania: Hazardous substances must be identified.

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

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MATERIAL SAFETY DATA SHEET

FILE NO.: 08

SaniGLAZE CLEAN UP SOLUTION

MSDS DATE: 10/15/03

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CLEAN UP SOLUTION
SYNONYMS: None
PRODUCT CODES: 01-01-004

PRODUCT USE: Tile surface cleaning and preparation

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	>80	No
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Isopropanol	67-63-0	<12	Yes
		<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		400	980
NIOSH REL - TWA:		400	980

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes (mists)
Skin: Yes
Ingestion: Yes
Eyes: Yes

POTENTIAL HEALTH EFFECTS:

Inhalation: If sprayed or misted may cause chemical pneumonitis, irritation, or chemical burns. This product is not toxic by inhalation.

MATERIAL SAFETY DATA SHEET

FILE NO.: 08

SaniGLAZE CLEAN UP SOLUTION

MSDS DATE: 10/15/03

Skin: Minimally irritating. Prolonged contact may cause dermatitis, drying of skin.
Ingestion: Do not take internally. Contains isopropanol. Can cause blindness if ingested. May cause nausea, gastrointestinal distress or diarrhea.
Eyes: May cause temporary eye irritation.

ACUTE HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

CHRONIC HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Contact or breathing mists may exacerbate existing skin or respiratory disorders.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse. Discard contaminated leather articles.

INGESTION: DO NOT induce vomiting. Drink 3-4 glasses of milk or water, and call the nearest poison control center.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
LOWER: None

FLASH POINT: °F: None
°C: None

METHOD USED: None

AUTOIGNITION TEMPERATURE: °F: None
°C: None

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

MATERIAL SAFETY DATA SHEET

FILE NO.: 08

SaniGLAZE CLEAN UP SOLUTION

MSDS DATE: 10/15/03

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

OTHER PRECAUTIONS: None

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.

EYE PROTECTION: Safety glasses (ANSI Z87.1) or approved equivalent as necessary to minimize eye contact hazards.

MATERIAL SAFETY DATA SHEET

FILE NO.: 08

SaniGLAZE CLEAN UP SOLUTION

MSDS DATE: 10/15/03

SKIN PROTECTION: Neoprene or other materials may be used if there is documented evidence of compatibility.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Slightly hazy liquid
ODOR:	Faint banana-like odor
PHYSICAL STATE:	Liquid
pH AS SUPPLIED:	
pH (Other):	
BOILING POINT:	>218 °F
MELTING POINT:	<32 °F
FREEZING POINT:	°F
VAPOR PRESSURE (mmHg):	4
VAPOR DENSITY (AIR = 1):	Same as water
SPECIFIC GRAVITY (H₂O = 1):	0.97
EVAPORATION RATE(H₂O = 1):	>1
SOLUBILITY IN WATER:	Water miscible
PERCENT SOLIDS BY WEIGHT:	
PERCENT VOLATILE (BY WT):	

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 08

SaniGLAZE CLEAN UP SOLUTION

MSDS DATE: 10/15/03

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Compound, Cleaning liquid (non-hazardous)

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: None

LABEL STATEMENT: None

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

MATERIAL SAFETY DATA SHEET

FILE NO.: 08

SaniGLAZE CLEAN UP SOLUTION

MSDS DATE: 10/15/03

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 11/08/04

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPER SHIELD 4
SYNONYMS: None
PRODUCT CODES: 01-02-016

PRODUCT USE: Tile surface sealer

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	<65	No
		ppm	mg/m3
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
DGMB Glycol Ether	112-34-5	<3	No
		ppm	mg/m3
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
DEH Glycol Ether	112-59-4	<6	No
		ppm	
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 11/08/04

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: No
Ingestion: Yes
Eyes: No

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Minimally irritating. Prolonged contact may cause dermatitis, drying of skin.
Ingestion: Do not take internally. May cause nausea, gastrointestinal distress, diarrhea or death.
Eyes: Severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

CHRONIC HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, and vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly Combustible, IIIB

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 11/08/04

FLASH POINT: °F: 200
°C:

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: °F: Not determined
°C: Not determined

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Respiratory equipment should be worn to avoid inhalation of concentrated vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Avoid contact with skin and eyes. Keep away from excessive heat or open flames. Keep containers closed when not in use. Use and store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 11/08/04

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons, overshoes, oversleeves or other protective clothing as necessary to minimize exposure. The use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewashes and safety showers in the workplace are recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: 212 - 497°F

MELTING POINT: <32 °F

FREEZING POINT: °F

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H2O = 1):

EVAPORATION RATE (ethyl ether = 1): 107.49

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT: 20.6

PERCENT VOLATILE (BY VOL): 81.0

SECTION 9 NOTES: None

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 11/08/04

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: None

LABEL STATEMENT: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 11/08/04

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 1/25/06

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPER SHIELD 5 FLAT
SYNONYMS: None
PRODUCT CODES: 01-02-018-F

PRODUCT USE: Tile surface sealer

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	<65	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
EH Glycol Ether	112-25-4	<3	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
PPH Glycol Ether	770-35-4	<2	No
OSHA PEL-TWA:		<u>ppm</u>	
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: No
Ingestion: Yes
Eyes: No

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Minimally irritating. Prolonged contact may cause dermatitis, drying of skin.
Ingestion: Do not take internally. May cause nausea, gastrointestinal distress, diarrhea or death.
Eyes: Severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

CHRONIC HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, and vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly Combustible, IIIB

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

FLASH POINT: °F: 200
°C:

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: °F: Not determined
°C: Not determined

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: 1

EXTINGUISHING MEDIA: Foam, alcohol foam, CO₂, dry chemical, water or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Respiratory equipment should be worn to avoid inhalation of concentrated vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Avoid contact with skin and eyes. Keep away from excessive heat or open flames. Keep containers closed when not in use. Use and store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons, overshoes, oversleeves or other protective clothing as necessary to minimize exposure. The use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewashes and safety showers in the workplace are recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: 212 - 497°F

MELTING POINT: <32 °F

FREEZING POINT: °F

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H₂O = 1):

EVAPORATION RATE (ethyl ether = 1): 74.9

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT: 22.4

PERCENT VOLATILE (BY VOL): 79.5

SECTION 9 NOTES: None

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 1/25/06

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: None

LABEL STATEMENT: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 1/25/06

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPER SHIELD 5 GLOSS
SYNONYMS: None
PRODUCT CODES: 01-02-018-G

PRODUCT USE: Tile surface sealer

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204
EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	<65	No
		ppm	mg/m3
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
EH Glycol Ether	112-25-4	<3	No
		ppm	mg/m3
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
PPH Glycol Ether	770-35-4	<3	No
		ppm	
OSHA PEL-TWA:		Not established	Not established
NIOSH REL - TWA:		Not established	Not established

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: No
Ingestion: Yes
Eyes: No

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Minimally irritating. Prolonged contact may cause dermatitis, drying of skin.
Ingestion: Do not take internally. May cause nausea, gastrointestinal distress, diarrhea or death.
Eyes: Severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

CHRONIC HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, and vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly Combustible, IIIB

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

FLASH POINT: °F: 200
°C:

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: °F: Not determined
°C: Not determined

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: 1

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Respiratory equipment should be worn to avoid inhalation of concentrated vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Avoid contact with skin and eyes. Keep away from excessive heat or open flames. Keep containers closed when not in use. Use and store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons, overshoes, oversleeves or other protective clothing as necessary to minimize exposure. The use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewashes and safety showers in the workplace are recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: 212 - 497°F

MELTING POINT: <32 °F

FREEZING POINT: °F

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H2O = 1):

EVAPORATION RATE (ethyl ether = 1): 74.3

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT: 20.8

PERCENT VOLATILE (BY VOL): 81.2

SECTION 9 NOTES: None

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 1/25/06

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: None

LABEL STATEMENT: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 1/25/06

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPER SHIELD 5 SEMI-GLOSS
SYNONYMS: None
PRODUCT CODES: 01-02-018-S

PRODUCT USE: Tile surface sealer

MANUFACTURER: SaniGLAZE International, LLC
ADDRESS: 123 Park Street
Jacksonville, Florida 32204

EMERGENCY PHONE: (800) 255-3924 CHEM-TEL (Chemical Emergencies Only)
OTHER CALLS (Product Information): (800) 874-5554
FAX PHONE: (904) 366-2690

PREPARED BY: MACTEC Engineering and Consulting, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207

SECTION 1 NOTES: None

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Water	7732-18-5	<65	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
EH Glycol Ether	112-25-4	<3	No
OSHA PEL-TWA:		<u>ppm</u>	<u>mg/m3</u>
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established
<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
PPH Glycol Ether	770-35-4	<3	No
OSHA PEL-TWA:		<u>ppm</u>	
NIOSH REL - TWA:		Not established	Not established
		Not established	Not established

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: Yes
Skin: No
Ingestion: Yes
Eyes: No

POTENTIAL HEALTH EFFECTS:

Inhalation: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death.
Skin: Minimally irritating. Prolonged contact may cause dermatitis, drying of skin.
Ingestion: Do not take internally. May cause nausea, gastrointestinal distress, diarrhea or death.
Eyes: Severe irritation, tearing, redness, blurred vision, and blindness.

ACUTE HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

CHRONIC HEALTH HAZARDS: The toxicological properties of this compound have not been fully tested. Similar compounds are essentially non-toxic.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Anesthesia, respiratory tract irritation, dermatitis, nausea, and vomiting.

CARCINOGENICITY

OSHA Regulated: No

ACGIH: No

NTP: No

IARC Monographs: No

OTHER: None

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Lift the eyelids while flushing to decontaminate all the areas around the eye and lid. Get medical attention as soon as first aid has been administered.

SKIN: Remove contaminated clothing. Wash affected area with soap and water. If irritation persists, seek medical attention. Decontaminate clothing and shoes before reuse.

INGESTION: DO NOT induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

INHALATION: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Slightly Combustible, IIIB

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

FLASH POINT: °F: 200
°C:

METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: °F: Not determined
°C: Not determined

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: 1

EXTINGUISHING MEDIA: Foam, alcohol foam, CO2, dry chemical, water or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cooled with a water spray if involved in a fire. Respiratory equipment should be worn to avoid inhalation of concentrated vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: May evolve carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified fragments if this product is involved in a fire.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: DO NOT contaminate municipal sewers or other open bodies of water with runoff. Wear recommended protective clothing. Remove contaminated garments promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling. Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the liquid with an inert absorbent such as sand, dirt, vermiculite or "oil-dri", or use commercial absorbent pads. Transfer liquids and solid diking material to suitable containers, and dispose of in accordance with local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Avoid contact with skin and eyes. Keep away from excessive heat or open flames. Keep containers closed when not in use. Use and store in a dry, cool, well-ventilated area. Empty containers may contain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations. Keep this and all chemicals out of the reach of children.

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

OTHER PRECAUTIONS: Smoking in areas where this material is used should be strictly prohibited.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Local exhaust is recommended when used in enclosed areas.

RESPIRATORY PROTECTION: Use in a well-ventilated area. If mist is being generated and exceeds the TLV, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

EYE PROTECTION: Use chemical safety glasses, goggles, and face shields for eye protection.

SKIN PROTECTION: Use impermeable chemical handling gloves for skin protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use impermeable aprons, overshoes, oversleeves or other protective clothing as necessary to minimize exposure. The use of head caps whenever possible is strongly recommended.

WORK HYGIENIC PRACTICES: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking. Eyewashes and safety showers in the workplace are recommended.

EXPOSURE GUIDELINES:

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE: Liquid

pH AS SUPPLIED:

pH (Other):

BOILING POINT: 212 - 497°F

MELTING POINT: <32 °F

FREEZING POINT: °F

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H2O = 1):

EVAPORATION RATE (ethyl ether = 1): 74.3

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT: 20.8

PERCENT VOLATILE (BY VOL): 81.2

SECTION 9 NOTES: None

MATERIAL SAFETY DATA SHEET

SaniGLAZE SUPER SHIELD

FILE NO.: 09A

MSDS DATE: 1/25/06

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkaline materials, strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May evolve carbon monoxide, carbon dioxide, and other unidentified fragments if this product is involved in a fire.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The toxicological properties of this compound have not been fully tested.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations. If these options are not available, consign the recovered material to a licensed hazardous waste contractor.

RCRA HAZARD CLASS:

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS: None

ID NUMBER: None

PACKING GROUP: None

LABEL STATEMENT: None

MATERIAL SAFETY DATA SHEET

FILE NO.: 09A

SaniGLAZE SUPER SHIELD

MSDS DATE: 1/25/06

OTHER AGENCIES: None

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are TSCA approved.

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302: EHS reporting not required

Section 304: Hazardous releases reporting not required

Section 311: Reporting is required if inventory exceeds the threshold planning quantity

Section 312: Inventory data reporting is not required

Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: MACTEC Engineering and Consulting, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.