

# SAFETY DATA SHEET

# SAUEREISEN

Date Prepared : 06/10/2016

SDS No : SCC-208A

RestoKrete No. 208, Part A, Hardener

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RestoKrete No. 208, Part A, Hardener**PRODUCT CODE:** 208LA**CHEMICAL FAMILY:** Amine mixture**MANUFACTURER**

Sauereisen

160 Gamma Drive

Pittsburgh, PA 15238

**Emergency Contact:** John Kozak**Emergency Phone:** (800)424-9300**Customer Service:** 412 963-0303**E-Mail:** jakozak@sauereisen.com**24 HR. EMERGENCY TELEPHONE NUMBERS****Poison Control Center (Medical) :** (877) 800-5553**CANUTEC (Canadian Transportation) :** (613) 996-6666**CHEMTREC (US Transportation) :** (800) 424-9300

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Serious Eye Damage, Category 2A  
 Respiratory Tract Irritation, Category 3  
 Respiratory Sensitization, Category 1B  
 Skin Sensitization, Category 1B  
 Acute Toxicity (Dermal), Category 5  
 Acute Toxicity (Inhalation), Category 5  
 Acute Toxicity (Oral), Category 5  
 Skin Irritation, Category 2

**GHS LABEL**Exclamation  
markHealth  
hazard**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H317: May cause an allergic skin reaction.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H333: May be harmful if inhaled.  
 H313: May be harmful in contact with skin.  
 H303: May be harmful if swallowed.

**PRECAUTIONARY STATEMENTS****Prevention:**

- P264: Wash ... thoroughly after handling.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P285: In case of inadequate ventilation wear respiratory protection.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P271: Use only outdoors or in a well-ventilated area.

**Response:**

- P312: Call a POISON CENTER/doctor/...if you feel unwell.  
 P302+P352: IF ON SKIN: Wash with plenty of water/...  
 P321: Specific treatment (see ... on this label).  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...  
 P362: Take off contaminated clothing.

**Storage:**

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

**Disposal:**

- P501: Dispose of contents/container to ...

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
3,6,9-triazaundecamethylenediamine	< 5	112-57-2
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	< 5	9046-10-0
Mannich Base Adduct	< 70	

**4. FIRST AID MEASURES****EYES:**

Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**SKIN:** Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.

**INGESTION:** If swallowed, seek Medical attention. Induce vomiting as directed by medical personnel. Do not give an unconscious person anything by mouth or induce vomiting.

**INHALATION:** If difficulty breathing, move to fresh at air once. For actue overexposure, give oxygen if breathing is difficult. Apply artificial respiration if breathing has stopped. Keep patient warm and at rest. Seek immediate medical attention.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**ACUTE EFFECTS:** Will cause burns to skin and eyes. High concentration of vapors can cause severe irritation of eyes and respiratory tract. Liquid causes severe damage to mucous membranes if swallowed.

**CHRONIC EFFECTS:** Prolonged or repeated exposure may cause asthma and skin sensitiation or other allergic response. Ingestion may cause bleeding of the gastrointestinal tract and the vomiting of blood.

**5. FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA:**

Carbon dioxide, foam, dry chemicals, sand, earth, and steam.

**HAZARDOUS COMBUSTION PRODUCTS:** May generate ammonia and toxic nitrogen oxide gasses. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from firefighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated.

**EXPLOSION HAZARDS:** Dusts and aerosols at sufficient concentrations may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care during dusting or misting operations such as grinding or drilling.

**FIRE FIGHTING PROCEDURES:** Firefighters subject to products of combustion should wear full protective clothing, including self-contained breathing apparatus.

**FIRE FIGHTING EQUIPMENT:** Toxic fumes will be evolved when this material is involved in a fire. Self-contained breathing apparatus should be available for fire fighters.

**FIRE EXPLOSION:** Sudden reaction and fire may result if this product is mixed with an oxidizing agent. Cool fire exposed containers with water.

**SENSITIVE TO STATIC DISCHARGE:** None

**SENSITIVITY TO IMPACT:** None

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Stop leak if possible. Ventilate space involved. Absorb, sweep up and place in container for disposal. Reduce dust spreading with water spray. Shut off or remove ignition sources. Prevent waterway contamination. Consult a regulatory specialist to determine appropriate reporting requirements, for assistance in waste characterization and other requirements .

**LARGE SPILL:** For large spills, dike and collect with absorbent material. Flushed cleaned areas with water being careful not to allow run-off to enter drains, sewers or streams. Observe Environmental regulations. Wear PPE - gloves, rubber boots, and safety glasses.

## 7. HANDLING AND STORAGE

### GENERAL PROCEDURES:

Avoid contact with eyes, skin, and clothing.

For industrial use only!

Harmful if inhaled.

Do not take internally.

May cause irritation.

Do not eat, drink or smoke when using this product.

Wear chemical splash goggles, gloves and protective clothing.

Avoid high ambient temperatures and humidity.

Wash thoroughly after handling.

**STORAGE:** Store in a cool, dry place.

Keep container closed when not in use.

Store away from direct heat and flame.

Keep away from food and drinking water.

Store out of direct sunlight.

DO NOT SMOKE where product is used or stored.

Store in a well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Breathing vapors must be avoided. Ventilation must be sufficient to control vapors.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Splashproof, chemical resistant safety goggles or face shield. Eye bath nearby. Contact lenses should not be worn.

**SKIN:** Impervious gloves, neoprene, or other suitable long sleeved and legged clothing. Launder clothing before reuse.

**RESPIRATORY:** No special requirements under ordinary conditions of use and with adequate ventilation. Self contained breathing apparatus recommended when used in small enclosed areas. Use NIOSH approved respirator with organic vapor cartridge if airborne levels exceed PELs and in emergency situations ( e.g. a large spill). If the TLV of any component is exceeded use appropriate respiratory protection or ventilate in accordance with OSH Regulation 29 CFR Part 1910.

**WORK HYGIENIC PRACTICES:** Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Liquid

**COLOR:** Amber

**FLASH POINT AND METHOD:** to (375°F)

**FLAMMABLE LIMITS:** 0 to 0

**VAPOR PRESSURE:** < 26.667

**VAPOR DENSITY:** > 26.667

**BOILING POINT:** >

**SPECIFIC GRAVITY:** 1 to 1.1

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable under normal conditions of use and storage.

**CONDITIONS TO AVOID:** Avoid acids, alkalines and oxidizers. Violent exothermic reaction occurs when mixed with acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition or burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and / or ammonia.

**INCOMPATIBLE MATERIALS:** (Materials to Avoid) oxidizing agents, strong alkalies (bases), and strong acids.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** No data is available on the product itself.

**Notes:** Components:

Mannich Base Adduct LD50 (Rabbit): >2000 mg/kg

Polyoxypropylenediamine LD50 (Rabbit): 2980 ml/kg

**ORAL LD<sub>50</sub>:** No data is available on the product itself.

**Notes:** Components:

Polyoxypropylenediamine: LD50 (Rat): 2,880 mg/kg

**INHALATION LC<sub>50</sub>:** No data is available on the product itself.

**Notes:** Components:

Polyoxypropylenediamine: LD50(Rabbit, 4 hours): >220 mg/L

### CARCINOGENICITY

**Notes:** Does not contain any substances greater than 0.1% listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union)

**IRRITATION:** Eye, Skin and Inhalation Irritant.

**SENSITIZATION:** Skin and Respiratory sensitizer.

**REPRODUCTIVE EFFECTS:** No Data Available

**TERATOGENIC EFFECTS:** No Data Available

**MUTAGENICITY:** No Data Available

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available. Contact Env. Dept.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

**EMPTY CONTAINER:** Disposal must be made according to official regulations.

#### 14. TRANSPORT INFORMATION

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated Paint & related material, compounds.

**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated

#### 15. REGULATORY INFORMATION

##### UNITED STATES

##### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

R36/37/38: Irritating to eyes, respiratory system and skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S46: If swallowed, seek medical advice immediately and show this container or label.

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** There are no listed chemicals above detection limits in this compound.

**TITLE III NOTES:** None above detection limits.

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
3,6,9-triazaundecamethylenediamine	112-57-2
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	9046-10-0

**TSCA STATUS:** Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CALIFORNIA PROPOSITION 65:** Known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

##### CANADA

##### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic



Corrosive

R36/37/38: Irritating to eyes, respiratory system and skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S46: If swallowed, seek medical advice immediately and show this container or label.

**WHMIS CLASS:** Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Components included on inventory

## 16. OTHER INFORMATION

**PREPARED BY:** John A Kozak      **Date Prepared:** 06/10/2016

### HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	B

## SAFETY DATA SHEET

# SAUEREISEN

Date Prepared : 06/10/2016

SDS No : SCC-208B

RestoKrete No. 208, Part B, Resin

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RestoKrete No. 208, Part B, Resin**PRODUCT CODE:** 208LB**CHEMICAL FAMILY:** Epoxy Resin**MANUFACTURER**

Sauereisen

160 Gamma Drive

Pittsburgh, PA 15238

**Emergency Contact:** John Kozak**Emergency Phone:** (800)424-9300**Alternate Contact:** Don Schubert**Customer Service:** 412 963-0303**E-Mail:** jakozak@sauereisen.com**24 HR. EMERGENCY TELEPHONE NUMBERS**

Poison Control Center (Medical):1-800-222-1222

CHEMTREC (US Transportation): 1-800-424-9300

CHEMTREC (Outside US):1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Respiratory Tract Irritation, Category 3

Respiratory Sensitization, Category 1B

Skin Irritation, Category 2

Eye Irritation, Category 2B

Acute Toxicity (Inhalation), Category 5

**GHS LABEL**Exclamation  
markHealth  
hazard**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H315: Causes skin irritation.

H333: May be harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H320: Causes eye irritation.

**PRECAUTIONARY STATEMENTS****Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P285: In case of inadequate ventilation wear respiratory protection.

P264: Wash ... thoroughly after handling.

**Response:**

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor/...if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of water/...

P321: Specific treatment (see ... on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

#### Disposal:

P501: Dispose of contents/container to ...

### POTENTIAL HEALTH EFFECTS

**EYES:** Irritating, and may injure eye tissue if not removed promptly.

**SKIN:** Moderate irritation and dryness. Prolonged or repeated exposure may result in sensitization.

**INHALATION:** Headache, nausea, and irritation to the nose and throat. Prolonged or repeated exposure may cause asthma.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Bisphenol A/epichlorohydrin Resin	< 90	25068-38-6
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	< 30	68609-97-2
Benzyl Alcohol	< 5	100-51-6

### 4. FIRST AID MEASURES

**EYES:** Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** If swallowed, immediately give large quantities of water. Induce vomiting by tickling back of throat with finger, depressing back of tongue with finger, or drinking one or more glasses of salt water. Do not give an unconscious person anything by mouth or induce vomiting. Seek immediate medical attention.

**INHALATION:** If difficulty breathing, move to fresh air once. For acute overexposure, give oxygen if breathing is difficult. Apply artificial respiration if breathing has stopped. Keep patient warm and at rest. Seek immediate medical attention.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Can cause redness, tearing, Irritation, inflammation and corneal opacity.

**SKIN:** Moderate irritation and dryness. Prolonged or repeated exposure may result in sensitization.

**INHALATION:** Headache, nausea, and irritation to nose and throat. Prolonged or repeated exposure may cause asthma.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water fog, foam, carbon dioxide, and dry chemicals.

**EXPLOSION HAZARDS:** Dusts and aerosols at sufficient concentrations may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care during dusting or misting operations such as grinding or drilling.

**FIRE FIGHTING PROCEDURES:** Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

**FIRE EXPLOSION:** Containers may explode in heat of fire; cool containers with water.

**SENSITIVE TO STATIC DISCHARGE:** None



**SENSITIVITY TO IMPACT:** None

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILL:

Avoid contact with material. Persons not wearing appropriate protective equipment should be excluded from the area of spill until clean-up is complete. Stop spill at source. Dike area to prevent spreading. Remaining product may be taken up by clay, diatomaceous earth or other absorbent and shoveled into disposal containers such as a dumpster or other common garbage receptacle. Residual material may be removed using steam or hot soapy water. Keep spark-producing equipment away from area. Observe environmental regulations and report spills as required to appropriate authorities. Personal Precautions: Avoid dust formation. Remove all sources of ignition. Ensure adequate ventilation. Use protective equipment. See also Section 8.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid contact with eyes, skin, and clothing.

Avoid breathing dust.

For industrial use only!

Do not take internally.

May cause irritation.

Wear chemical splash goggles, gloves, and protective clothing.

Use adequate ventilation and employ respiratory protection where dust or fumes may be generated.

Wash thoroughly after handling.

**STORAGE:** Store in a cool, dry place.

Keep container closed when not in use.

Store away from direct heat and flame.

Keep away from food and drinking water.

Always mix well before using.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			mg/m <sup>3</sup>
	Type		ppm	
Bisphenol A/epichlorohydrin Resin	OSHA PEL	STEL		15
	ACGIH TLV	TWA		10
Benzyl Alcohol	ACGIH TLV	TWA	10	

**ENGINEERING CONTROLS:** Breathing vapors must be avoided. Ventilation must be sufficient to control vapors. This material should be confined as far as possible within sealed or covered equipment in which case normal ventilation should be adequate. Special (local) ventilation will be needed in areas where vapors are expected to be vented.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses with side shields, chemical resistant goggles, or face shield. Contact lenses should not be worn.

**SKIN:** Impervious gloves, neoprene, or other suitable long sleeved and legged clothing. Launder clothing before reuse.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)
Benzyl Alcohol	200

**APPEARANCE:** Liquid

**COLOR:** Clear**pH:** Not Established**FLASH POINT AND METHOD:** (302°F) Closed Cup**FLAMMABLE LIMITS:** NE to NE**VAPOR PRESSURE:** 41.667**VAPOR DENSITY:** 41.667**BOILING POINT:** > (392°F)**MELTING POINT:** Not Established**SOLUBILITY IN WATER:** Moderate**EVAPORATION RATE:** Not Established**SPECIFIC GRAVITY:** 1.106**10. STABILITY AND REACTIVITY****REACTIVITY:** Yes**HAZARDOUS POLYMERIZATION:** No**STABILITY:** Stable under normal conditions of use and storage.**CONDITIONS TO AVOID:** Avoid long periods of high heat, greater than 110 F**POSSIBILITY OF HAZARDOUS REACTIONS:** None Expected.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, phenolics.**INCOMPATIBLE MATERIALS:** (Materials to Avoid) oxidizing agents, alkalies (bases), acids and amines.**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Benzyl Alcohol	1230	2000	1000

**DERMAL LD<sub>50</sub>:** No data is available on the product itself.**Notes:** Components:

Benzyl Alcohol: LD50, rabbit: 2000 mg/kg

**ORAL LD<sub>50</sub>:** No data is available on the product itself.**Notes:** Components:

Benzyl Alcohol: LD50, rat: 1,230 - 3,100 mg/kg

**INHALATION LC<sub>50</sub>:** No data is available on the product itself.**Notes:** Components:

Benzyl Alcohol: LD50, rat (4 hours): &gt;4.178 mg/L

**SERIOUS EYE DAMAGE/IRRITATION:** Eye, Skin and Inhalation Irritant.**RESPIRATORY OR SKIN SENSITISATION:** Skin and Respiratory sensitizer.**GERM CELL MUTAGENICITY:** No Data Available**REPRODUCTIVE TOXICITY:** No Data Available**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** No data available. Contact Env. Dept.**AQUATIC TOXICITY (ACUTE):** No data is available on the product itself.**Notes:** Components:

Benzyl Alcohol, bluegill sunfish (96 hour): LC50: 10 mg/L

Benzyl Alcohol, fathead minnow (96 hour): LC50: 460 mg/L

Benzyl Alcohol, silverside minnow (96 hour): LC50: 10 - 32 mg/L

Benzyl Alcohol, water flea (48 hour): LC50: 360 mg/L

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Incineration is the preferred method.

**PRODUCT DISPOSAL:** Unused and uncontaminated product can be burned in suitable incineration plants or disposed of in a suitable landfill in accordance with the regulations issued by the appropriate federal, provincial, state, and local authorities.

**EMPTY CONTAINER:** Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Empty decontaminated containers should be crushed to prevent reuse. Do not heat or cut empty container with electric or gas torch. Gases may be highly toxic.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated Paint & related material, compounds.

**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Acute. Chronic. Irritant.

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** There are no listed chemicals above detection limits in this compound.

**TITLE III NOTES:** None above detection limits.

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Bisphenol A/epichlorohydrin Resin	25068-38-6
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	68609-97-2
Benzyl Alcohol	100-51-6

**TSCA STATUS:** Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CALIFORNIA PROPOSITION 65:** Known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

#### CANADA

#### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitization by inhalation and skin contact.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**WHMIS CLASS:** Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Components included on inventory

## 16. OTHER INFORMATION

**PREPARED BY:** John A Kozak      **Date Prepared:** 06/10/2016

### HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		G

## SAFETY DATA SHEET

# SAUEREISEN

Date Prepared : 06/10/2016

SDS No : SCC-208C

## RestoKrete No. 208, Part C, Powder

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RestoKrete No. 208, Part C, Powder**PRODUCT CODE:** 208LC**CHEMICAL FAMILY:** Portland Cement Concrete**MANUFACTURER**

Sauereisen

160 Gamma Drive

Pittsburgh, PA 15238

**Emergency Contact:** John Kozak**Emergency Phone:** (800)424-9300**Alternate Contact:** Don Schubert**Customer Service:** 412 963-0303**E-Mail:** jakozak@sauereisen.com**24 HR. EMERGENCY TELEPHONE NUMBERS**

Poison Control Center (Medical):1-800-222-1222

CHEMTREC (US Transportation): 1-800-424-9300

CHEMTREC (Outside US):1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Carcinogenicity, Category 1B

Target Organ Toxicity (Repeated exposure), Category 2

Eye Irritation, Category 2B

Skin Irritation, Category 2

**GHS LABEL**Exclamation  
markHealth  
hazard**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H320: Causes eye irritation.

H315: Causes skin irritation.

H350: May cause cancer .

H373: May cause damage to lungs or kidneys through prolonged or repeated exposure via inhalation.

**PRECAUTIONARY STATEMENTS****Prevention:**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P314: Get medical advice/attention if you feel unwell.

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of water/...

P321: Specific treatment (see ... on this label).

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362: Take off contaminated clothing.

**Storage:**

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container to ...

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Silica, Crystalline	< 60	14808-60-7
Portland Cement	< 60	65997-15-1

### 4. FIRST AID MEASURES

**EYES:** Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Do not induce vomiting - in general, no treatment is necessary unless large quantities of product are ingested, however, seek medical attention.

**INHALATION:** If difficulty breathing, move to fresh air once. Apply artificial respiration if breathing has stopped. Seek medical attention.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Causes pain, redness and tearing.

**SKIN:** Contact causes skin irritation.

**INHALATION:** Causes sneezing and burning or itching in nose and throat.

**ACUTE EFFECTS:** Over exposure can cause severe skin, eye, respiratory and gastrointestinal irritation

**CHRONIC EFFECTS:** The adverse health effects-- silicosis, lung cancer, autoimmune and chronic kidney diseases, tuberculosis and non-malignant respiratory diseases-- are chronic effects.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Material is non-flammable.

**EXTINGUISHING MEDIA:** NA = Not Applicable

**HAZARDOUS COMBUSTION PRODUCTS:** NA = Not Applicable

**EXPLOSION HAZARDS:** Dusts and aerosols at sufficient concentrations may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care during dusting or misting operations such as grinding or drilling.

**FIRE FIGHTING PROCEDURES:** Normal precautions are satisfactory.

**HAZARDOUS DECOMPOSITION PRODUCTS:** NA = Not Applicable

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep, scoop or vacuum discharged material. Respiratory protection should be worn at all times and skin contact should be avoided. Do not allow material to enter sewers or waterways. Observe environmental regulations.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid contact with eyes, skin, and clothing.

Avoid breathing dust.

For industrial use only!

Do not take internally.

May cause irritation.

Wear chemical splash goggles, gloves, and protective clothing.

Use adequate ventilation and employ respiratory protection where dust or fumes may be generated.

Wash thoroughly after handling.

**HANDLING:** Do not breathe dust. Keep airborne dust concentrations below permissible exposure limit (PEL). Do not rely on sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean and fit tested respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing that has become dusty.

**STORAGE:** Store in a cool, dry place.

Keep container closed when not in use.

Keep away from food and drinking water.

Always mix well before using.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
Silica, Crystalline	OSHA PEL	TWA		5
		STEL	0.05	
	ACGIH TLV	TWA		0.025
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

**ENGINEERING CONTROLS:** Provide adequate general or local ventilation to keep vapors below PELs. Control vapor concentration & keep below PEL and accepted TLVs if established. Provide workers with dust respirators for use in emergency or non-routine situations where dust levels may exceed PEL. A NIOSH approved half-face-piece respirator can be used up to 10xPEL. For up to 100x PEL, use a full-face respirator with replaceable dust filter. Higher exposures require an approved air supplied respirator.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Rubber framed or cup type goggles.

**RESPIRATORY:** Any dust respirator for 5 times PEL or less. Any fume respirator or high-efficiency particulate respirator for 10 times PEL or less. If TLV of any component is exceeded use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** None

**APPEARANCE:** Granular powder

**COLOR:** Brown to Red-brown

**pH:** 7 to 8

**PERCENT VOLATILE:** NA = Not Applicable

**FLASH POINT AND METHOD:** None

**FLAMMABLE LIMITS:** NA to NA

**AUTOIGNITION TEMPERATURE:** None

**VAPOR PRESSURE:** NA = Not Applicable

**BOILING POINT:** (4046°F)

**MELTING POINT:** (3050°F)

**SOLUBILITY IN WATER:** Insoluble

**EVAPORATION RATE:** NA = Not Applicable

**SPECIFIC GRAVITY:** 2 to 2.2

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** None

**STABILITY:** Stable under normal conditions of use and storage.

**CONDITIONS TO AVOID:** None

**POSSIBILITY OF HAZARDOUS REACTIONS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Silica will dissolve in hydrofluoric acid and produce a corrosive gas - Silicon tetrafluoride.

**INCOMPATIBLE MATERIALS:** Avoid contact with strong bases, hydrofluoric acids, fluorine, and fluorine compounds.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

#### NOTES:

Acute Silicosis can occur with exposure to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis is fatal.

**SERIOUS EYE DAMAGE/IRRITATION:** Eye, Skin and Inhalation Irritant.

### CARCINOGENICITY

**IARC:** Silica is listed as having sufficient evidence to be a carcinogen in humans and in experimental animals, for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).

**NTP:** The National Toxicology Program, in its Ninth Annual report on Carcinogens, classified "silica, crystalline (respirable)" as a known human carcinogen.

**OSHA:** Crystalline Silica (Quartz) is not regulated by the US Occupational Safety and Health Administration as a carcinogen.

#### NOTES:

Silica is listed by IARC and NTP as having sufficient evidence to be a carcinogen in humans and in experimental animals for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).

### STOT-SINGLE EXPOSURE:

·Nephrotoxicity - Recent studies suggest that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders.

### GENERAL COMMENTS:

**ADDITIONAL INFORMATION:** Crystalline Silica (Quartz)

·Silicosis - The major concern is silicosis caused by the inhalation of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), accelerated, or acute.



- Scleroderma - There is evidence that exposure to respirable crystalline silica or silicosis is associated with incidence of scleroderma of the lungs.
- Tuberculosis - Individuals with silicosis are at risk to develop tuberculosis, if exposed to persons with tuberculosis.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Crystalline silica (quartz) is not known to be an environmental hazard.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** The packaging and material may be disposed of in landfills; however, material should be covered or wetted to minimize generation of airborne dust.

**PRODUCT DISPOSAL:** Sweep up excess; flush area with large quantities of water. Material may be disposed of in approved landfill according to official regulations.

**EMPTY CONTAINER:** Disposal must be made according to official regulations.

**RCRA/EPA WASTE INFORMATION:** Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not Regulated

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R48/23: Toxic : danger of serious damage to health by prolonged exposure through inhalation.

R49: May cause cancer by inhalation.

S20/21: When using do not eat, drink or smoke.

S22: Do not breathe dust.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Chronic. Irritant.

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** There are no listed chemicals above detection limits in this compound.

**TITLE III NOTES:** None above detection limits.

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Crystalline silica (Quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Acts (CERCLA), 40 CFR 302

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Silica, Crystalline	14808-60-7
Portland Cement	65997-15-1

**TSCA STATUS:** Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**REGULATIONS****STATE REGULATIONS:**

Massachusetts Toxic Use Reduction Act- Silica, Crystalline (respirable size, <10microns) is toxic for purposes of the Massachusetts Toxic Use Reduction Act

Pennsylvania Worker and Community Right to Know Act- Quartz is a hazardous substance under the act, but it is not a special hazardous substance or an environmental hazardous substance.

California Inhalation Reference Exposure Level (REL)- California established a chronic REL of 3 ug for silica crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**CALIFORNIA PROPOSITION 65:** Known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

**RCRA STATUS:** Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40CFR 261 et seq.

**CANADA****WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Toxic

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R48/20: Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R48/23: Toxic : danger of serious damage to health by prolonged exposure through inhalation.

R49: May cause cancer by inhalation.

S20/21: When using do not eat, drink or smoke.

S22: Do not breathe dust.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**WHMIS CLASS:** Class D, Division 2, Subdivision A: Materials cause other toxic effects, very toxic material.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Components included on inventory

**16. OTHER INFORMATION**

**PREPARED BY:** John A Kozak      **Date Prepared:** 06/10/2016

**HMIS RATING**

<b>HEALTH</b>	*	<b>1</b>
<b>FLAMMABILITY</b>		<b>0</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>E</b>