SAFETY DATA SHEET

Date Prepared : 05/04/2015
SDS No : SCC-222A
Date Revised : 02/28/2018
Revision No : 1

222 Conoglaze HC, Part A, Hardener

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 222 Conoglaze HC, Part A, Hardener
PRODUCT DESCRIPTION: Conoglaze HC, Part A, Hardener
PRODUCT CODE: 222GA
PRODUCT FORMULATION NAME: 222 Conoglaze HC, Part A, Hardener
CHEMICAL FAMILY: Aliphatic Amine Curative

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:

Acute Toxicity (Oral), Category 3
Acute Toxicity (Inhalation), Category 2
Eye Irritation, Category 2A
Skin Irritation, Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 3

Physical:

Flammable Liquids, Category 4

GHS LABEL

Exclamation mark

Skull and crossbones

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H315: Causes skin irritation.
H318: Causes serious eye damage.
H301: Toxic if swallowed.
H227: Combustible liquid.
H330: Fatal if inhaled.
H402: Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash ... thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P260: Do not breathe 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.
P273: Avoid release to the environment.

Response:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P330: Rinse mouth.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P320: Specific treatment is urgent (see ... on this label).
P310: Immediately call a POISON CENTER/doctor/...
P302+P352: IF ON SKIN: Wash with plenty of water/...
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
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.
P370+P378: In case of fire: Use carbon dioxide, foam, dry chemicals, or sand to extinguish.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P404: Store in a closed container.

Disposal:

P501: Dispose of contents/container in accordance with local/national regulations.

POTENTIAL HEALTH EFFECTS

EYES: Extremely irritating to the eyes and may cause severe damage including blindness.

SKIN: Contact causes severe skin irritation and possible burns.

INGESTION: May cause intense burning about the mouth, throat, mucous membranes and abdomen.

INHALATION: Highly irritating to respiratory tract. Chronic, repeated inhalation of respirable dust may cause industrial bronchitis.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Furfuryl Alcohol	< 65	98-00-0
Polydimethylsiloxane, Silica Adduct	< 4	67762-90-7

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 promptly with soap and water. If soaked through clothing, promptly remove clothing and wash skin. Launder clothing before reuse. Discard saturated shoes and leather clothing. For severe exposures, get under safety hower after removing clothing. Do not apply greases or ointments. Seek medical attention for incidents of significant exposure or if effects apparent.

INGESTION: If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: If difficulty breathing, move to fresh at 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: Causes pain, redness and tearing.

SKIN: Contact causes skin irritation.

INGESTION: Ingestion may cause nausea, vomiting or weakness.

INHALATION: Inhalation may cause dizziness, stupor, unconsciousness, central nervous system depression, weakness, vomiting, drowsiness, blurred vision, headache and nausea.

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

CHRONIC EFFECTS:

Repeated and/or prolonged contact with the skin may cause allergic reaction or sensitization. Repeated and/or prolonged exposures may result in adverse respiratory effects (such as cough, tightness of chest, or shortness of breath); adverse skin effects (such as defatting, rash, irritation or corrosion); adverse eye effects (such as conjunctivitis or corneal damage).

NOTES TO PHYSICIAN: Further treatment may be necessary. Contact local poison control center. Rinse mouth.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Combustible Liquid

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

HAZARDOUS COMBUSTION PRODUCTS: Combustion products may be toxic.

EXPLOSION HAZARDS: Not sensitive to mechanical impact or static discharge

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.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic, unknown organic compounds, carbon dioxide and carbon monoxide during combustion.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain and collect with absorbent material.

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.
Avoid high ambient temperatures and humidity.
Always mix well before using

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

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	**Type**		**ppm**	**mg/m³**
Furfuryl Alcohol	**OSHA PEL**	**TWA**	50	200
		STEL	10	
	ACGIH TLV	**TWA**	10	40
		STEL	15	60
Polydimethylsiloxane, Silica Adduct	**OSHA PEL**	**STEL**		15
	ACGIH TLV	**TWA**		10

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

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

SKIN: Suitable protective gloves (neoprene, butyl rubber, or viton). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

RESPIRATORY: Use organic vapor cartidges in respirators. If TLV of any component is exceeded use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.V.

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

OTHER USE PRECAUTIONS: ***This product contains encapsulated silica. By OSHA letter of interpretation, the silica is not considered respirable in either the cement paste form or cured cement form. However, if the cured cement is polished, ground or chipped during processing, handling or use, the silica maybe released as an airborne respirable particle. In these instances appropriate personal protection equipment and local ventilation controls must be employed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)
Polydimethylsiloxane, Silica Adduct	600

APPEARANCE: Liquid

COLOR: Amber

pH: 6.0 to 6.6

PERCENT VOLATILE: 2.4

FLASH POINT AND METHOD: > (150°F)

FLAMMABLE LIMITS: 0 to 0

AUTOIGNITION TEMPERATURE: Not Established

VAPOR PRESSURE: 34.5

VAPOR DENSITY: 34.5

BOILING POINT: > (170°F)

SPECIFIC GRAVITY: 1 to 1.210 at 25°C

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: Violent exothermic polymerization may occur due to improper contact with acids or acidic

catalysts; does not occur spontaneously. Such polymerization can be controlled by addition of large quantities of water, or by neutralization with base.

STABILITY: Stable under normal conditions of use and storage.

CONDITIONS TO AVOID: Avoid temperatures in excess of 100 F, flame, sparks, and static electricity. Avoid acids, alkalines and oxidizers. This material can undergo hazardous polymerization.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic, unknown organic compounds, carbon dioxide and cabon monoxide during combustion.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizers or epoxy resins under uncontrolled conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD_{50}: No data is available on the product itself.

Notes: Components:
Furfuryl Alcohol LD50 (Rabbit): 400 mg/kg

ORAL LD_{50}: 275 mg/kg (rat)

Notes: Components:
Furfuryl Alcohol LD50 (rat): 177 mg/kg

INHALATION LC_{50}: 153 ppm / 4 hours (mouse)

Notes: Components:
Furfuryl Alcohol LC50 (rat): 233 ppm/4hr

GERM CELL MUTAGENICITY: Furfuryl Alcohol has caused mutations in bacteria and hamster ovary cells.

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 it's Ninth Annual report on Carcinogens, classified "silica, crystaline (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).

REPRODUCTIVE TOXICITY: No Data Available

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.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This material is expected to be harmful to aquatic life in very low concentrations. If released into soil, furfuryl alcohol is expected to display high mobility and has the potential to leach into ground water.

BIOACCUMULATION/ACCUMULATION: In water, furfuryl alcohol is not expected to abdorb to sediment, suspended particulaes, or to bioconcentrate in aquatic organisms.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC_{50}: > 32 mg/L Freshwater Fathead Minnow

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material should be disposed of as hazardous waste in accordance with Federal, state and local

environmental regulations. Dispose of containers with any amount of liquid material as hazardous waste.
Dilution followed by inceneration is the preferred disposal method. Dilute 10:1 with a clean compatible and combustible solvent, e.g. #2 fuel oil or mineral oil, to reduce reactivity hazards during incineration, handling and transportation.

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S., (Cycloaliphatic amine/Furfuryl Alcohol)

TECHNICAL NAME: Furfuryl Alcohol

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 6.1

UN/NA NUMBER: UN2922

PACKING GROUP: III

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S., (Cycloaliphatic amine/Furfuryl Alcohol)

UN NUMBER: UN2922

HAZARD CLASS: 8

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S., (Cycloaliphatic amine/Furfuryl Alcohol)

UN/NA NUMBER: UN2922

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 6.1

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S., (Cycloaliphatic amine/Furfuryl Alcohol)

UN/NA NUMBER: UN2922

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 6.1

PACKING GROUP: III

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S., (Cycloaliphatic amine/Furfuryl Alcohol)

UN/NA NUMBER: UN2922

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 6.1

PACKING GROUP: III

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

Corrosive


Toxic-
Secondary

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36/38: Irritating to eyes and skin.
S13: Keep away from food, drink and animal feedingstuffs.
S20/21: When using do not eat, drink or smoke.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27: Take off immediately all contaminated clothing.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

313 REPORTABLE INGREDIENTS: Furfuryl Alcohol * 98-00-0 * <30% Max. Weight

TITLE III NOTES: None above detection limits.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Furfuryl Alcohol	98-00-0
Polydimethylsiloxane, Silica Adduct	67762-90-7

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.

CLEAN WATER ACT: This product does not contain any listed Priority Pollutants.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION


Toxic


Corrosive

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36/38: Irritating to eyes and skin.
S13: Keep away from food, drink and animal feedingstuffs.
S20/21: When using do not eat, drink or smoke.
S27: Take off immediately all contaminated clothing.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

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

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak **Date Revised:** 02/28/2018

REVISION SUMMARY: This SDS replaces the 05/04/2015 SDS. Revised: **Section 9:** (VOC).

HMIS RATING

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H