

SAFETY DATA SHEET

SAUEREISEN

21C Furan Resin Mortar/Grout (Carbon), Liquid

Date Prepared : 05/01/2015
 SDS No : SCC-021CL
 Date Revised : 08/04/2017
 Revision No : 1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 21C Furan Resin Mortar/Grout (Carbon), Liquid
PRODUCT CODE: 21CL

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 4
 Acute Toxicity (Inhalation), Category 3
 Eye Irritation, Category 2A
 Skin Irritation, Category 2
 Acute Toxicity (Dermal), Category 4

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.
 H227: Combustible liquid.
 H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H331: Toxic if inhaled.
 H402: Harmful to aquatic life.

PRECAUTIONARY STATEMENTS

Prevention:

- P264: Wash ... thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P273: Avoid release to the environment.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P270: Do not eat, drink or smoke when using this product.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response:

- P370+P378: In case of fire: Use carbon dioxide, foam, dry chemicals, or water spray to extinguish.
 P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.
 P330: Rinse mouth.
 P302+P352: IF ON SKIN: Wash with plenty of water/...
 P312: Call a POISON CENTER/doctor/...if you feel unwell.
 P320: Specific treatment is urgent (see ... on this label).
 P362: Take off contaminated clothing.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P311: Call a POISON CENTER/doctor/...
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P337+P313: If eye irritation persists: 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.

Storage:

- P405: Store locked up.
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P235: Keep cool.

Disposal:

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

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 | < 30 | 98-00-0 |
| Phenol Formaldehyde Resin | < 30 | 9003-35-4 |

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

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

5. FIRE FIGHTING MEASURES

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/m ³ |
| Furfuryl Alcohol | OSHA PEL | TWA | 50 | 200 |
| | | STEL | 10 | |
| | ACGIH TLV | TWA | 10 | 40 |
| | | STEL | 15 | 60 |

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 cartridges 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH: 6.0 to 6.6

PERCENT VOLATILE: 2.4

FLASH POINT AND METHOD: (156°F)

FLAMMABLE LIMITS: 1.8% to 16.3%

AUTOIGNITION TEMPERATURE: Not Established

VAPOR PRESSURE: 30

VAPOR DENSITY: 30

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 carbon monoxide during combustion.

INCOMPATIBLE MATERIALS: Avoid contact with acids, acidic catalysts, strong oxidizers, strong Lewis and mineral acids.

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

DERMAL LD₅₀: No data is available on the product itself.

Notes: Components:

Furfuryl Alcohol LD50 (Rabbit): 400 mg/kg

Formaldehyde LD50 (Rat): 270 mg/kg

ORAL LD₅₀: 100 mg/kg (rat)**Notes:** Components:

Furfuryl Alcohol LD50 (rat): 177 mg/kg

Formaldehyde LD50 (rat): 100 mg /kg

INHALATION LC₅₀: 153 ppm / 4 hours (mouse)**Notes:** Components:

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

Formaldehyde LC50 (rat) 250 ppm/4hr

GERM CELL MUTAGENICITY: Furfuryl Alcohol has caused mutations in bacteria and hamster ovary cells.**REPRODUCTIVE TOXICITY:** No Data Available**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 adsorb to sediment, suspended particulates, or to bioconcentrate in aquatic organisms.**AQUATIC TOXICITY (ACUTE)****96-HOUR LC₅₀:** > 32 mg/L Freshwater Fathead Minnow**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Remove Excess material. Clean floor with non-flammable solvent compatible with substrate. Do not use acidic cleaning materials. Dispose of all waste material in compliance with local, state and Federal regulations for ignitable waste. May be incinerated or burned if in accord with regulations.**EMPTY CONTAINER:** Disposal must be made according to official regulations.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Furfuryl Alcohol**TECHNICAL NAME:** Furfuryl Alcohol**PRIMARY HAZARD CLASS/DIVISION:** 6.1**UN/NA NUMBER:** UN2874**PACKING GROUP:** III**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**



Poison
Inhalation
Hazard

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: Irritant. Toxic.

313 REPORTABLE INGREDIENTS: Formaldehyde * 50-00-0 * 0.1%

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: 100 lb (45.4 kg) final RQ for Formaldehyde

TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name | CAS |
|---------------------------|-----------|
| Furfuryl Alcohol | 98-00-0 |
| Phenol Formaldehyde Resin | 9003-35-4 |

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

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 1, Subdivision B: Poisonous and Infections Material, Materials causing immediate and serious effects, toxic material.

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak **Date Revised:** 08/04/2017

REVISION SUMMARY: This SDS replaces the 05/01/2015 SDS. Revised: **Section 9:** (VOC).

HMIS RATING

| | | |
|----------------------------|--------------------------|----------|
| HEALTH | <input type="checkbox"/> | 2 |
| FLAMMABILITY | | 2 |
| PHYSICAL HAZARD | | 1 |
| PERSONAL PROTECTION | | H |