

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.**Sauereisen, Inc.**

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CHEMICAL EMERGENCY HOTLINE Chemtrec: 800-424-9300/703-527-3887

PRODUCT NAME: **210T SEWERGARD TROWEL LINING, PT A, HARDENER**
ITEM NUMBER: 210TLA
ITEM DESCRIPTION: SEWERGARD TROWEL LINING, PT A, HARDENER
PRODUCT DESCRIPTION: SEWERGARD TROWEL LINING, PT A, HARDENER, LIQUID
CHEMICAL FAMILY: MODIFIED CYCLOALIPHATIC POLYAMINE
REVISION DATE: 01/24/12

•PRODUCT USE: Protective coating for industrial applications

SECTION 2. COMPOSITION AND DATA ON COMPONENTS WITH LIMITS

<u>COMPONENT/CAS #</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>% WT</u>	<u>NOTES</u>
PHENOL				
108-95-2	5 PPM (TWA)	5 PPM (STEL)	<30%	SARA Rep.
Toxic				
BENZYL ALCOHOL				
100-51-6	10 PPM (TWA)	NE	<30%	
Toxic				
1,2 CYCLOHEXANEDIAMINE				
694-83-7	NE (TWA)	NE (STEL)	<20%	
<CLo=3200 mg/m ³ /4 hr				
Toxic, combustible				
POLYOXYPROPYLENEDIAMINE				
9046-10-1	NE	NE	<30%	
1,6 HEXANEDIAMINE				
124-09-4	0.5 PPM (TWA)	NE (STEL)	<20%	
Toxic, Combustible				

•Exposure values shown for guidance only. Please follow applicable regulations.

SECTION 3. HAZARDS IDENTIFICATION

•HMIS rating

Health 3
Flammability 2
Physical Hazard 0
Personal protection H

Carcinogenic Effects: Does not contain any substance 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). See also Section 11.

All metal parts of the mixing and processing equipment must be earthed/ grounded. Ensure all equipment is electrically earthed/ grounded before beginning transfer operations.

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•THRESHOLD LIMIT VALUE: None

•EFFECTS OF OVEREXPOSURE:

Acute: 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: Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response. Ingestion may cause bleeding of the gastro-intestinal tract and the vomiting of blood.

SECTION 4. FIRST AID MEASURES

•EYE CONTACT: 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.

•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.

INGESTION: Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation: If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

•SKIN CONTACT: 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 shower after removing clothing. Do not apply greases or ointments.

Seek medical attention for incidents of significant exposure or if effects apparent.

SECTION 5. FIRE FIGHTING MEASURES

•AUTO IGNITION TEMPERATURE: NE

Special Protective Equipment for Firefighters: Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus.

•EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemicals, sand, earth, and steam.

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

•NOTE: Many dusts and aerosols may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care to avoid causing dusting or misting operations such as grinding or drilling.

•FIRE AND EXPLOSION HAZARDS: Toxic fumes will be evolved when this material is involved in a fire. Self-contained breathing apparatus should be available for fire fighters. Cool fire exposed containers with water.

•FIRE FIGHTING PROCEDURES: Don't spray pool fires directly. A solid stream of water or foam directed into hot, burning liquid can cause frothing. Use self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

•FLAMMABILITY - Flammable in presence of open flame, sparks, excessive heat and static discharge.

•FLAMMABLE LIMITS LEL: NE

•FLAMMABLE LIMITS UEL: NE

•FLASHPOINT: 174°F (PMCC)

OSHA Flammability Classification: Not applicable

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SECTION 6. ACCIDENTAL RELEASE MEASURES

•CLEAN-UP PROCEDURE: 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. Environmental Precautions: No special environmental precautions required. Local authorities should be advised if significant spillages cannot be contained. Personal Precautions: Avoid dust formation. Remove all sources of ignition. Ensure adequate ventilation. Use protective equipment. See also Section 8.

SECTION 7. HANDLING AND STORAGE

•Avoid contact with eyes, skin, and clothing.
•For industrial use only!
•Harmful if inhaled.
•Do not take internally.
•May cause irritation.
•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.
STORAGE: Keep container closed when not in use.
STORAGE: Store away from direct heat and flame.
STORAGE: Keep away from food and drinking water.
STORAGE: Ground containers when transferring materials. Remove all sources of ignition or sparks from area.
STORAGE: Store out of direct sunlight.
STORAGE: DO NOT SMOKE where product is stored or used.
STORAGE: Store in a well-ventilated place.
HANDLING: Avoid contact with skin and eyes. Avoid dust formation. Do not breath dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharge. All metal parts of the mixing and processing equipment must be earthed/ grounded. Ensure all equipment is electrically earthed/ grounded before transfer operations.
STORAGE: Keep containers tightly closed in a dry, cool and well- ventilated place. Do not store together with volatile chemicals as they may be absorbed onto product. Keep at ambient temperatures.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

See Section 2 for the components that have limit values that require monitoring at the workplace.
•EYE PROTECTION: Safety glasses with side shields, chemical-type goggles, or face shield. Contact lenses should not be worn.
•RESPIRATORY PROTECTION: Use dust respirators in compliance with OSHA Standard 1910.134. For emergency, a self-contained positive pressure, breathing apparatus or full-face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.

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

•VENTILATION: 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.

Exposure Controls

Australia: 2mg/m3, Total Dust
 Austria MAK: 4mg/m3, TWA, Inhalable Fraction
 Finland: 5mg/m3
 Germany TRGS 900: 4mg/m3, TWA, Inhalable Fraction
 India: 10mg/m3, TWA
 Ireland: 2.4mg/m3, TWA, Respirable Dust
 Norway: 1.5mg/m3, TWA, Respirable Fraction
 Switzerland: 4mg/m3, TWA
 UK WEL: 6mg/m3, TWA, Total Inhalable Fraction
 2.4mg/m3, TWA, Respirable Fraction
 US OSHA PEL: 6mg/m3
 US ACGIH-TLV: 10mg/m3, TWA, Inhalable
 3mg/m3, TWA, Respirable
 Belgium: 10mg/m3, TWA, Inhalable
 3mg/m3, TWA, Respirable
 China: 8mg/m3, TWA
 10mg/m3, STEL
 Italy: 10mg/m3, TWA, Inhalable
 3mg/m3, TWA, Respirable
 Malaysia: 10mg/m3, TWA, Inhalable
 3mg/m3, TWA, Respirable
 Spain: 10mg/m3, VLA, Inhalable
 3mg/m3, VLA, Respirable

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

•% VOLATILE BY VOLUME: NE
 •APPEARANCE AND ODOR: Yellow-brown liquid, mild phenolic odor.
 •BOILING POINT: 500°F
 •COEFFICIENT OF WATER/OIL DISTRIBUTION: NA
 •EVAPORATION RATE: (ETHER=1) 1.0 (Polyoxypropylenediamine)
 •MELTING POINT: NE
 •ODOR THRESHOLD: Not available
 •PH: NE
 •SPECIFIC GRAVITY: 1.04
 •SOLUBILITY IN WATER: Soluble
 •VAPOR DENSITY: NA
 •VAPOR PRESSURE: NE
 Partition Coefficient (n-octanol/water): Not Applicable

SECTION 10. STABILITY AND REACTIVITY

•CONDITIONS TO AVOID: None.

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Conditions to Avoid: Keep away from heat and sources of ignition. Avoid dust formation. Product resists ignition and does not promote flame spread.

- HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and/or ammonia.
- HAZARDOUS POLYMERIZATION: Will not occur.
- INCOMPATIBILITY: Avoid contact with strong oxidizers or epoxy resins under uncontrolled conditions.

Mechanical Sensitivity (shock): Not sensitive to mechanical impact.

- STABILITY: Stable under ordinary conditions of use and storage.

Static Discharge Effects: Take precautionary measures against static discharges. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. This material is an inorganic dust and will not create nor support conditions that would result in a dust explosion or fire.

SECTION 11. TOXICOLOGICAL INFORMATION

- ACGIH NO
- IARC NO
- EFFECTS OF ACCUTE EXPOSURE: Refer to Section 3.
- EFFECTS OF CHRONIC EXPOSURE: Refer to Section 3.
- MUTAGENIC EFFECTS: If not addressed in Section 3, the data is not available.
- REPRODUCTIVE TOXICITY: If not addressed in Section 3, the data is not available.
- TERATOGENIC EFFECTS: If not addressed in Section 3, the data is not available.
- NAME(S) OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS AND EFFECTS: If not addressed in Section 3, data is not available.

Acute Toxicity

Oral LD50: LD50/oral/rat=>5000mg/kg

InhalationLC50: Due to the product's physical characteristics, no suitable testing procedure is available.

Dermal LD50: LD50/dermal/rabbit=>2000mg/kg

Eye Irritation: Draize score 0.7/110@24hr. Non-irritating

Subchronic Toxicity

No data is available on the product itself

Chronic Toxicity

Carcinogenic Effects: 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)

Mutagenic Effects: Not mutagenic in AMES test, unscheduled DNA synthesis, chromosomal aberration in Chinese hamster ovary (CHO) cells.

Reproductive Toxicity: Did not show teratogenic effects in animal experiments. According to experience not expected.

Sensitizing Effects: A delayed contact hypersensitivity study in guinea pigs utilizing the Magnusson and Klingman maximization technique was performed. No sensitization responses were observed.

Synergistic Materials: None reasonably foreseeable.

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- EYE IRRITANT: Yes
 - INGESTION IRRITANT: Yes
 - INHALATION IRRITANT: Yes
 - RESPIRATORY SENSITIZER: Yes
 - SKIN IRRITANT: Yes
 - SKIN SENSITIZER: Yes
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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Fish (Brachydanio rerio) ECO (96 hours): >10,000mg/l; (Method: OECD 203)
Daphnia magna ECO (24 hours): >10,000mg/l; (Method: OECD 202)

Environmental Fate

Mobility: Not expected to migrate.

Bioaccumulation: According to experience not expected

Persistence/Degradability: The methods for determining biodegradability are not applicable to inorganic substances.

Distribution to Environmental Compartments: Not determined

- No data available.
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SECTION 13. DISPOSAL CONSIDERATIONS

•WASTE DISPOSAL: Non-hazardous. Material should be disposed of in approved landfill according to federal, state, and local regulations.

RCRA Classification (40 CFR 261): Not a hazardous waste.

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.

- EUROPEAN COMMUNITY WASTE DISPOSAL KEY: Not known
 - UNCLEANED PACKAGINGS: Disposal must be made according to official regulations.
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SECTION 14. TRANSPORT INFORMATION

- DOT I.D. NO.: UN2735
 - DOT SHIPPING NAME: AMINES, LIQUID, CORROSIVE, N.O.S., (1,2 Cyclohexanediamine)
 - DOT HAZARD CLASS: 8
 - OTHER: P.G.: II LABEL: CORROSIVE
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SECTION 15. REGULATORY INFORMATION

•U.S. FEDERAL REGULATIONS:

•TSCA Status:

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

•SARA TITLE III:

•Section 302 Extremely Hazardous Substances: None above detection limits.

•Section 311/312 (40 CFR 370) Hazardous Categories:

- Acute
- Chronic

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•Section 313: Toxic Categories (40 CFR 370) Toxic chemicals above "De Minimis" level are:
•Phenol * 108-95-2 * 20% Max. Wgt.

CERCLA:

•No Data Available

•STATE REGULATIONS:

•California: Proposition 65 substances (components) 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 levels prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of hazardous/carcinogenic ingredients listed elsewhere in the MSDS comply with State of California regulations.

US Federal Regulations

TSCA 12(b) Export Notification: This product does not contain any components that are subject to TSCA 12(b) Export Notification.

Clean Air Act Amendmenets of 1990 (CAA, Section 112, 40 CFR 82): This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor.

Clean Water Act (CWA, 40 CFR 116) Priority Pollutants: This product does not contain any listed Priority Pollutants.

US Coalition of NorthEastern Governors (CONEG) Metals List: This product meets the CONEG Source Reduction Council limits for the sum of the levels of lead, cadmium, mercury, and hexavalent chromium of less than 100 parts per million by weight.

CANADA

•This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

•CANADA

•DSL: Components included on inventory.

WHMIS HAZARD CLASS(ES):

•Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

WHMIS TRADE SECRET REGISTRY NUMBER(S): Not Applicable

WHMIS SYMBOLS:

•Stylized T
•Test tube/hand

•EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS Inventory: Components included on inventory

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EEC SYMBOL(S):

- Toxic

EEC RISK PHRASES:

- R20/22 Harmful by inhalation and if swallowed.
- R34 Causes burns.
- R42/43 May cause sensitisation by inhalation and skin contact.

EEC SAFETY PHRASES

- S23 Do not breathe gas, fumes, vapor, or spray.
- 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 and face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately.

SECTION 16. OTHER INFORMATION

•This MSDS contains information and recommendations based upon our present knowledge and data believed to be reliable. All data shown here are subject to reasonable variation and are supplied as an accommodation to the buyer. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This MSDS applies only to the product in its "as manufactured" state, since the application to which the product is subjected may change its characteristics. The buyer is responsible for determining the safety, toxicity, and suitability of the product under the conditions of their use of the product. Buyers also have the responsibility for insuring that the MSDS is available to their employees, product users, and handlers.

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•NAV=NOT AVAILABLE NE=NOT ESTABLISHED NA=NOT APPLICABLE ND=NOT DETERMINED EV=UNDER
EVALUATION
