

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

160 Gamma Drive  
Pittsburgh, PA 15238-2989  
412/963-0303

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

PRODUCT NAME: **2 ALUSEAL (PASTE)**  
ITEM NUMBER: 2-Q  
ITEM DESCRIPTION: ALUSEAL ADHESIVE CEMENT, PASTE (HS TARIFF 3816.00)  
PRODUCT DESCRIPTION: ALUSEAL (PASTE)  
CHEMICAL FAMILY: SODIUM SILICATE CEMENT  
REVISION DATE: 02/02/09

•PRODUCT USE: High temperature bonding/adhesive compounds

**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>
SODIUM SILICATE 1344-09-8	NE	NE	<40%	
ALUMINUM OXIDE 1344-28-1 Total TWA=10mg/m <sup>3</sup>	5 MG/M <sup>3</sup>	NE STEL	<80%	
LEAD 7439-92-1	0.05MG/M <sup>3</sup> (TWA)	0.15MG/M <sup>3</sup> (STEL)	<.01%	SARA Rep.

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

**SECTION 3. HAZARDS IDENTIFICATION**

•HMIS rating

Health 1  
Flammability 0  
Physical Hazard 0  
Personal protection C

•THRESHOLD LIMIT VALUE: NE

•EFFECTS OF OVEREXPOSURE: Since this product is a mixture, there is no exposure limit established for it. Hazardous components and their associated permissible exposure limits are listed in the section titled 'Composition and Data on Components'. Specific health hazards from the various ingredients include: Irritation or burns to eyes, and stomach.

•EYE: Pain, redness, and tearing

•SKIN: Itching or burning will occur with repeated or prolonged contact - May exacerbate existing skin conditions.

**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.

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- 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 air at once. Apply artificial respiration if breathing has stopped. Seek medical attention.
  - SKIN CONTACT: Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.
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#### **SECTION 5. FIRE FIGHTING MEASURES**

- AUTO IGNITION TEMPERATURE: NA
  - EXPLOSION DATA - Not sensitive to mechanical impact or static discharge.
  - EXTINGUISHING MEDIA: NA
  - 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: NA
  - FIRE FIGHTING PROCEDURES: NA
  - FLAMMABILITY - Not flammable in presence of open flame, sparks, excessive heat and static discharge.
  - FLAMMABLE LIMITS LEL: NA
  - FLAMMABLE LIMITS UEL: NA
  - FLASHPOINT: NA
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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

- CLEAN-UP PROCEDURE: Spill area may become slippery; use care to avoid falls. Flush spill area with plenty of water. For spill quantities greater than 100 gallons: isolate, dike and store discharged material, if possible. Collect with dry sand, clay or other absorbent. Flush cleaned areas with water. Observe environmental regulations.
  - Wear PPE - gloves, rubber boots, and safety glasses.
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#### **SECTION 7. HANDLING AND STORAGE**

- Avoid contact with eyes, skin, and clothing.
  - For industrial use only!
  - Do not take internally.
  - May cause irritation.
  - Wear chemical splash goggles, gloves, and protective clothing.
  - Wash thoroughly after handling.
- STORAGE: Store in a cool, dry place.  
STORAGE: Keep container closed when not in use.  
STORAGE: Always mix well before using.
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#### **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: No special requirements under ordinary conditions of use and with adequate ventilation.
  - SKIN PROTECTION: 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.

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- VENTILATION: Normal ventilation for good working conditions should be used.
  - OTHER PRECAUTIONS: Safety shower and eyewash station should be within direct access. Keep containers closed. Dries to form a glassy film that can cut skin. Spills are very slippery. Can etch glass.
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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- % VOLATILE BY VOLUME: NA
  - APPEARANCE AND ODOR: Creamy, white paste, no appreciable odor.
  - BOILING POINT: 212°F (100°C)
  - COEFFICIENT OF WATER/OIL DISTRIBUTION: NA
  - EVAPORATION RATE: NA
  - MELTING POINT: NA
  - ODOR THRESHOLD: Not available
  - PH: 11.5
  - SPECIFIC GRAVITY: 2.01
  - SOLUBILITY IN WATER: <30%
  - VAPOR DENSITY (AIR=1): Same as water vapor.
  - VAPOR PRESSURE: NA
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#### **SECTION 10. STABILITY AND REACTIVITY**

- CONDITIONS TO AVOID: Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.
  - HAZARDOUS DECOMPOSITION PRODUCTS: None
  - HAZARDOUS POLYMERIZATION: Will not occur.
  - INCOMPATIBILITY: (Materials to avoid) Acids, salts, or alcohols may cause gel formation (non-hazardous)
  - STABILITY: Stable under ordinary conditions of use and storage.
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#### **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.
  - ADDITIONAL INFORMATION: The LD50 (oral, rat) for sodium silicate is reported to be in the range 1300-1600 mg/kg, depending on the ratio.
  - ADDITIONAL INFORMATION: Sodium silicate solution has no known chronic hazard.
  - EYE IRRITANT: Yes
  - INGESTION IRRITANT: Yes
  - INHALATION IRRITANT: Yes
  - RESPIRATORY SENSITIZER: No
  - SKIN IRRITANT: Yes
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#### **SECTION 12. ECOLOGICAL INFORMATION**

- AQUATIC TOXICITY: Sodium silicate solution has low toxicity (96-hr LD50=500-5,000mg/liter). The 96 hr TLM in mosquitofish is 2,320mg/liter. High pH (alkalinity) of undiluted material is harmful to aquatic life.
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### SECTION 13. DISPOSAL CONSIDERATIONS

- WASTE DISPOSAL: Comply with federal, state and local regulations. If approved, flush with water to chemical sewer. For large quantities, neutralize with dilute acid and landfill solids or flush neutral liquid to sewer with plenty of water.
  - 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.: NOT REGULATED
  - DOT SHIPPING NAME: NA
  - DOT HAZARD CLASS: NOT REGULATED
  - DOT LABEL: NONE
  - OTHER: NA
  - NMF CLASSIFICATION: HIGH TEMPERATURE BONDING MORTAR
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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:
      - Irritant
    - Section 313: Toxic Categories (40 CFR 370) Toxic chemicals above "De Minimis" level are:
      - There are no listed chemicals above detection limits in this compound.
- CERCLA:
  - None
- 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.

### 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.

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•CANADA  
•DSL: Components included on inventory.

WHMIS HAZARD CLASS(ES):  
•Not controlled

WHMIS TRADE SECRET REGISTRY NUMBER(S): Not Applicable

WHMIS SYMBOLS:  
•Stylized T

•EUROPEAN ECONOMIC COMMUNITY (EEC)  
EINECS Inventory: Components included on inventory

EEC SYMBOL(S):  
•Irritant

EEC RISK @ PHRASES:  
•Irritating to eyes, respiratory system, and skin

EEC SAFETY PHRASES  
•Avoid contact with skin and eyes  
•In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
•Keep container tightly closed

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#### 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

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