# Specification and Safety Data Sheet

## 1650C Hi-Purity Alumina Adhesive

## 1. Product and Company Identification

**Product Name:** EQ-CAA-2-LD

**CAS#:** 1344-09-8

**Chemical Formula:** $Na_2Si_3O_7$

**Identified uses:** Laboratory chemicals, Synthesis of substances

**Contact Information:**

MTI Corporation
860 South 19th Street
Richmond, CA 94804, USA
Tel: 510-525-3070
Fax: 510-525-4705
Email: info@mtixtl.com
Website: www.mtixtl.com

**Non-emergency assistance:** 1-888-525-3070

**Emergency assistance:** Company: CHEMTEL (MTI Contract# MIS2559467) Day or Night
Tel (Within USA and Canada): 1-800-255-3924
Tel (Outside USA and Canada): 1-813-248-0585

## 2. Hazards Identification

**Emergency Overview: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

GHS07

| | | |
|---|---|---|
| Acute Tox. 4 | H302 | Harmful if swallowed |
| Skin Irrit. 2 | H315 | Causes skin irritation |
| Eye Irrit. 2A | H319 | Causes serious eye irritation |

For the full text of the H-Statements mentioned in this Section, see Section 16

**HMIS Rating**
Health hazard: 1
Chronic Health Hazard:
Flammability: 0
Physical Hazard 0

**NFPA Rating**
Health hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0

**GHS Label elements, including precautionary statements**

| | |
|---|---|
| Pictogram |  |
| Signal | Danger |
| Hazard statement(s) | |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| Precautionary statement(s) | |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P270 | Do not eat, drink or smoke when using this product |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P301 + P331 + P315 | IF SWALLOWED: Do NOT induce vomiting. Get immediate medical advice/attention |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 + P313 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None

## 3. Composition/Information on Ingredients

**Substance Name:** Sodium polysilicate

**Formula:** $Na_2Si_3O_7$

**Molecular Weight:** 242.23 g/mol

**CAS-No. :** 1344-09-8

**Hazardous Components**

| Component | Classification | Concentration |
|---|---|---|
| Sodium polysilicate | Acute tox. 4, Skin Irrit. 2, Eye Irrit. 2A. H302, H315, H319 | 5 - <10% |
| Proprietary | | 2.5 - <10% |

Nonhazardous materials will not be listed separately. When encapsulated in a liquid mixture, powders are not expected to pose a health hazard when processed under normal conditions of use.

## 4. First Aid Measures

### 4.1 Description of first aid measures

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

## 5. Firefighting Measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol resistant-foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance mixture**

Sodium oxides, silicon oxides

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further Information**

No data available

## 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Soak up with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**6.4 Reference to other sections**

For handling and storage see section 7

For disposal see section 13.

## 7. Handling and Storage

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully released and kept upright to prevent leakage.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. Exposure Control/ Personal Protection

## 8.1 Control parameters

**Components with workplace control parameters**

None

## 8.2 Exposure controls

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Do not eat, smoke, or drink while using this product. Avoid contact with the eyes and skin.

**Personal protective equipment**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

**Control of environmental exposure**

Do not let product enter drains.

# 9. Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| a) Appearance | Paste/fluid |
| Color | White to off-white |
| b) Odor | Odorless |
| c) Odor Threshold | No data available |
| d) pH | No data available |
| e) Melting point/freezing point | No data available |
| f) Initial boiling point and boiling range | 100 °C (212 °F) |

| | |
|---|---|
| g) Flash point | No data available |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapor pressure | No data available |
| l) Vapor density | No data available |
| m) Relative density | 2.28 g/cm3 |
| n) Water solubility | Insoluble |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

**9.2 Other safety information**

No data available

## 10. Stability and Reactivity

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No information available

**10.6 Hazardous decomposition products**

Other decomposition products - No data available

In the event of fire: see section 5

## 11. Toxicological Information

**11.1 Information on toxicological effects**

**Acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

## 12. Ecological Information

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment PBT/vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

## 13. Disposal Considerations

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

## 14. Transport Information

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

# 15. Regulatory Information

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

Alumina oxide – Cas No. 1344-28-1

**SARA 311/312 Hazards**

Acute Health Hazard

| **Massachusetts Right to Know Components** | CAS-No. | Revision Date |
|---|---|---|
| Alumina oxide | 1344-28-1 | |
| Sodium Polysilicate | 1344-09-8 | |
| **Pennsylvania Right to Know Components** | | |
| Alumina oxide | 1344-28-1 | |
| Sodium Polysilicate | 1344-09-8 | |
| **New Jersey Right to Know Components** | | |
| Alumina oxide | 1344-28-1 | |
| Sodium Polysilicate | 1344-09-8 | |

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# 16. Other Information

| | |
|---|---|
| Acute Tox. 4: | Acute toxicity, Hazard Category 4 |
| Skin Irrit. 2: | Skin corrosion/irritation, Hazard Category 2 |
| Eye Irrit. 2A: | Serious eye damage/eye irritation, Hazard Category 2A |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |

The information above is believed to be accurate and represents the best information currently available to us. However, it does not represent any guarantee of the properties of the product. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes.