



AI TECHNOLOGY INC
 70 Washington Road
 Princeton Jct., NJ 08550
 (609) 799-9388 fax (609) 799-9308
 E-Mail: ait@aitechnology.com
 Internet: http://www.aitechnology.com

EMERGENCY PHONE: 1-800-424-9300

1) PRODUCT IDENTIFICATION

Product: MC7685 **Product Type:** Paste adhesive
Product Description: Cyanate ester admixture adhesive with alumina filler
Recommendation On Use: Low CTE, moisture, ionic impurities, high thermal. **General Use:** High Temperature Die Attach **Restriction On Use:** Intended for designated use only

2) HAZARD IDENTIFICATION

Signal Word: Warning



Precautionary Statement: For industrial use only **Physical Appearance:** Paste **Immediate Concerns:** This product may cause a rash on the skin.
Primary Route Entry: Skin **Medical Conditions Aggravated:** No specific data

Potential Health Effects:

Eyes: Irritant **Skin:** Adverse symptoms may include irritation and redness **Ingestion:** No specific data **Inhalation:** Irritant

Signs and Symptoms of Overexposure:

Eyes: Adverse symptoms may include irritation, watering and redness **Skin:** Irritant **Ingestion:** No specific data **Inhalation:** Irritant

Acute Toxicity:

No known significant effects or critical hazards **Chronic Exposure:** No specific data **Carinogenicity:** Not classifiable as a carcinogen **Mutagenicity:** Not Determined

Reproductive Effects:

No information with effecting the reproductive system **Teratogenic Effects:** Not tested **Target Organ Stament:** Not Determined **Sensitization:**

3) COMPOSITION / INFORMATION ON INGREDINTS

MATERIAL:	CAS NO	%
Aluminum Oxide	1344-28-1	70-90
Cyanate Ester Admixture	1156-51-0	30-10

NOTE: * For powders only; in adhesive product, powders are bound in adhesive and values are not applicable.

4) FIRST AID MEASURES

First Aid Eye: Immediately flush eyes with eyewash solution or clean water holding the eyelids apart for 15 minutes. If symptoms develop, seek medical attention. **First Aid SKIN:** Wash with soap and water. If symptoms develop, seek medical attention. **FIRST AID INHALE:** Move to fresh air and keep at rest. Seek medical attention if
First Aid Ingest: If swallowed, do not induce vomiting. Keep person resting and seek medical attention. **Physician Note:** **Acute Symptoms:** Seek medical treatment
Delayed Symptoms: Seek medical treatment

5) FIRE FIGHTING MEASURES

Flammable Class: 1 **Flame Propagation or Burning Rate of Ssolids:** Not Determined.
General Hazard: No specific fire or explosion hazard.
Extiguish Media: Sodium Bicarbonate and water
Hazardous Combustion Products: Carbon monoxide, oxides of nitrogen, formaldehyde, cyanide
Fire Fighting Procedures: Use self-contained breathing apparatus; decomposition and combustion products may be toxic. **Unsuitable Firefighting Equipment:** Self-contained breathing apparatus should be available for fire fighters.
Suitable Firefighting Equipment: Not determined
Sensitive To Static Discharge: No **Sensitive To Impact:** No

6) ACCIDENTAL RELEASE MEASURES

Small Spill: Cover with sand and place in waste containers for disposal

Large Spill: Contain spill and place in waste containers for disposal

Water Spill: Keep from going into water systems

Land Spill: Contain spill and place in waste containers for disposal

General Procedures:

Use the necessary tools and protective equipment

Release Notes:

Not Determined

7) HANDLING AND STORAGE

Handling:

Use latex gloves and safety glasses

Storage:

-40C

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE Eye And Face: Approved safety glasses and full face safety shield should be worn based on the task being performed

PPE Skin: Personal protective equipment should be worn based on the task being performed

Engineering Controls:

PPE Respiratory: Respirator selection must be based on known or anticipated exposure levels

OSHA PEL

0.01 mg/m³ *

ACGIH TLV

0.01 mg/m³ *

EINECS

PPE Ventilation: Emissions from ventilation equipment should be checked to ensure they comply with the requirements of environmental protection legislation

None Established

None Established

PPE Other: Personal protective equipment should be worn based on the task being performed

Work Hygienic Practices: Emissions from ventilation equipment should be checked to ensure they comply with the requirements of environmental protection legislation

9) PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint And Method: Not Determined

Lower Flammable Limits: Not Determined

Upper Flammable Limits: Not Determined

Physical State: Paste

Autoignition Temperature: Not Determined

Odor: Slight chemical odor

Color: Light beige

Odor Threshold:

Vapor Pressure: Not Determined.

PH: Not Determined

Vapor Density: Not Determined

Freezing Point: Not Determined

Boiling Point: Not Determined

Solubility In Water: None

Melting Point: > 400C

Density: 1.8

Evaporation Rate: Not Determined.

Viscosity:

Specific Gravity: 1.8

Coeff. Oil/Water: Not Determined.

Molecular Weight: Not Determined.

Appearance: Paste

10) STABILITY AND REACTIVITY

Hazardous Polymerization: May occur

Chemical Stability: Stable

Polymerization: Hazardous polymerization may occur.

Conditions To Avoid: Refer to Material Safety Data Sheet

Hazardous Decomposition Products:

Thermal degradation could produce carbon monoxide, carbon dioxide and unidentified organic compounds.

Incompatibility Materials:

There is no danger when product is cured.

11) TOXICOLOGICAL INFORMATION

Acute:

Eyes: **Dermal LD50:** Not Determined **Oral LD50:** Not Determined **Inhalation LC50:** Not Determined

Eye Effects: May cause burning and watery eyes

Skin Effects: Not Determined

Carcinogenicity:

IARC: Not Determined **NTP:** Not Determined

OSHA: 0.01 mg/m³ *

Sensitization: May cause sensitization by skin contact

Reproductive Effects: Not Determined

TARGET ORGANS:

Eyes: Irriting **Skin:** Irriting, may cause rash **Gastrointestinal:** Not Determined **Respiratory System:** Not Determined

Teratogenic Effects: May cause sensitization by skin contact

Mutagenicity: Not Determined

12) ECOLOGICAL INFORMATION

Ecotoxicity: No known significant effects or critical hazards

Mobility In Soil: No known significant effects or critical hazards

Persistence And Degradability: No known significant effects or critical hazards

Bioaccumulative Potential: No known significant effects or critical hazards

13) DISPOSAL CONSIDERATIONS

Disposal Method: This material and its container must be disposed of in a safe way.

For Large Spills: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

Product Disposal: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

Empty Container: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

14) TRANSPORT INFORMATION**Road And Rail (ADR/RID)****Transport Information:**

Not Regulated

Kemler Number:

Unknown

Hazard Class:

Irritant

Air (CIAO/IATA)

Shipping Name: Not Regulated

Technical Name: Unknown

UN Number: N.A.

Primary Hazard Class: N.A.

Packing Group: Unknown

Label: N.A.

Vessel (IMO/IMDG)

Shipping Name: Not Regulated

Technical Name: Unknown

UN Shipping Name: N.A.

Primary Hazard Class: N.A.

Packing Group: Unknown

Label: N.A.

15) REGULATORY INFORMATION

TCSA: Unknown

Skin: Unknown

Gastrointestinal: Unknown

Respiratory System: Unknown

16) OTHER INFORMATION

HMIS Health Rating (1-4): 1

HMIS Flammability Rating (1-4): 1

HMIS Physical Hazard Rating (1-4): 0

Long Term Health Affects (Y/N): N

Note: All ingredients in this product are on the Toxic Substances Control Act (TSCA) inventory or are not required to be listed.

No ingredient in this product is known to be carcinogenic.

Ingredients listed on the New Jersey "RIGHT TO KNOW" substance list: Aluminum Oxide: Substance#2891 CAS#1344-28-1

This product is compliant to RoHS & REACH and does not contain any Substances of Very High Concern

Section X: HMIS Hazard ID: Health 1 Flammability 1 Reactivity 0

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