SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AX-3220
SYNONYMS: Epoxy prepreg
CHEMICAL FAMILY: Epoxy / phenolic
MOLECULAR WEIGHT: Mixture
MOLECULAR FORMULA: Mixture

MANUFACTURER: Axiom Materials Inc
DIVISION: Main
ADDRESS: 2322 Pullman St. Santa Ana CA 92705

EMERGENCY PHONE: 800 424 9300 (Chemtrec)
OTHER CALLS: 949 623-4400

PRODUCT USE: Composite material construction

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO.</th>
<th>% WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin</td>
<td>25036-25-3</td>
<td>&lt;20%</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>Trade Secret</td>
<td>&lt;20%</td>
</tr>
<tr>
<td>Epoxy Resin Copolymers</td>
<td>Trade Secret</td>
<td>&lt;20%</td>
</tr>
<tr>
<td>Fumed Silica</td>
<td>67762-90-7</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Cyanoguanidine</td>
<td>461-58-5</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Epoxy Curing Agent</td>
<td>Trade Secret</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Fibrous Glass</td>
<td>6599-17-3</td>
<td>&lt;70%</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to skin, eyes, skin, and respiratory tract.

Skin: May cause skin irritation, and drying or crackling of the skin.

Eyes: Heated vapors may cause severe irritation, redness, tearing, and blurred vision. Contact with airborne dusts and particles may cause irritation.

Inhalation: Vapors may cause irritation of respiratory tract, mucous membranes, nose, and throat.

Ingestion: May cause ingestion irritation.

Delayed Effects: See section 11 carcinogen listings.

SECTION 4: FIRST AID MEASURES

Skin: Wash promptly with soap and water. Consult a physician.

Eye: Flush with water for at least 15 minutes. Consult a physician.

Inhalation: Remove to fresh air. Consult a physician.

Ingestion: If symptoms develop, remove from exposure and seek medical attention.

The information provided in this section is not intended to take the place of professional medical assistance and treatment.

NOTE: The information in this section is not intended to replace the advice of a professional medical expert.
FLAMMABLE PROPERTIES
FLASH POINT: N/A
METHOD USED: N/A

AUTOIGNITION TEMPERATURE:
759°F (404°C)
UPPER FLAMMABILITY LIMIT: N/A
LOWER FLAMMABILITY LIMIT: N/A
FLAME PROPAGATION RATE: N/A
OSHA FLAMMIBILITY CLASS: N/A

EXTINGUISHING MEDIA: Foam, carbon dioxide, water, or dry chemical

Unusual Fire And Explosion Hazards: Decomposition and combustion products may be toxic. Exothermic polymerization may occur.
Special Fire Fighting Precautions/Instructions: Wear positive pressure self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Treat any fumes as toxic. Wear personal protective equipment as recommended.
SPILL AND LEAK PROCEDURE: N/A
SPECIAL PRECAUTIONS: N/A

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep away from heat sources, hot equipment, and sunlight. Flammable.
STORAGE CONDITIONS: Store at 40°F or below.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Measures

Engineering Controls: Use local exhaust to control dust.

Skin Protection: Avoid any skin contact, wear gloves and protective clothing when handling.

Eye Protection: Eye protection including face shield should be worn if machining this product. If exposure to vapors is a risk, sealed safety glasses or goggles should be worn.

Respiratory Protection: For heated vapors, if the TLV of any component of this product is exceeded, use a NIOSH/MSHA jointly approved air supplied respirator is advised in the absence of proper environmental control. If local exhaust is not sufficient to control fibers or dust generate, use NIOSH approved dust respirator.

Ventilation: Provide good general and/or local exhaust to maintain exposure below TLV(s).

Additional Recommendations: Wear protective clothing and closed toed shoes or boots when handling.

EXPOSURE GUIDELINES:

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy resin</td>
<td>25036-25-3</td>
<td>5 mg/cu m</td>
<td>5 mg/cu m</td>
</tr>
<tr>
<td>Fumed Silica</td>
<td>67762-90-7</td>
<td>10mg/cu m dust</td>
<td>10mg/cu m nuis. Dust</td>
</tr>
<tr>
<td>Fibrous Glass</td>
<td>6599-17-3</td>
<td>15mg/cu m total</td>
<td>1f/cc total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5mg/cu m resp.</td>
<td>5mg/cu m resp.</td>
</tr>
</tbody>
</table>

*(skin) Absorption through skin can contribute significantly to overall exposure.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear to amber adhesive
ODOR: Slight epoxy odor
PHYSICAL STATE: Solid / Semisolid
pH AS SUPPLIED: N/A
BOILING POINT: N/A
MELTING POINT: N/A
FREEZING POINT: N/A
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H2O = 1): 1.2-1.6
VOLATILES: <1%
VOC: <1%

SECTION 10: STABILITY AND REACTIVITY

NORMAL STABLE: YES

CONDITIONS TO AVOID (STABILITY): Heat, high pressure, static electricity, hot storage.

INCOMPATIBILITY (MATERIAL TO AVOID): strong acids, strong bases, and strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, phenol, formaldehyde, ammonia, hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

IMMEDIATE EFFECTS: May cause eye, skin, and respiratory irritation.

DELAYED EFFECTS: Cancer Listing (see below)
(Subchronic and Chronic): formaldehyde: NTP Group 2, IARC Class 2A
Phenol: IARC Class 3

ADDITIONAL DATA:

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute Oral LD50</th>
<th>Acute Dermal LD50</th>
<th>Acute Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin</td>
<td>&gt;2000 mg/kg</td>
<td>&gt;2000 mg/kg</td>
<td>---</td>
</tr>
<tr>
<td>Fumed Silica</td>
<td>&gt;5000 mg/kg</td>
<td>---</td>
<td>4.9mg/l/4hr</td>
</tr>
<tr>
<td>cyanoguanidine</td>
<td>---</td>
<td>&gt;1000 mg/kg</td>
<td>---</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Ecotoxicological data has not been determined for this product. Any discharge to the environment should be strictly avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not Required
US DOT ID NUMBER: Not Required

SECTION 15: REGULATORY INFORMATION

FEDERAL:
All ingredients listed in TSCA inventory

STATE:
epoxy resin CAS# 25036-25-3
New Jersey RTK Label Information
Pennsylvania RTK Label Information
SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: Prepared by John Lincoln, 4/23/10

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