ARAMICORE COMPOSITE CO., LTD.
Safety data sheet

Revision: 8.9.2013

• Product identifier
• Trade name: AC-NH HONEYCOMB (AC-NH honeycomb includes both AC-NH-A Honeycomb and AC-NH honeycomb)
• MSDS#: 00000123
• Validation date: 8/9/2013
• Print date: 8/10/2013

• Manufacturer: Aramicore Composite Co., Ltd
• Address: No. 26 Qinghua Road, Suzhou High-tech Zone, Suzhou City, China
• Tel: 0512-66168789
• Fax: 0512-65396229

2 Hazards identification

• Physical state: Sheets or blocks
• Odor: Slight
• Color: brown
• OSHA/HCS status: While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.
• General information: Read the entire MSDS for a more thorough evaluation of the hazards.

3 Composition/information on ingredients
Chemical ingredients (% by wt)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cured Phenolic resin</td>
<td>17-65</td>
<td></td>
</tr>
<tr>
<td>Meta-aramid paper</td>
<td>32-80</td>
<td></td>
</tr>
<tr>
<td>Cured Adhesive</td>
<td>1-6</td>
<td></td>
</tr>
</tbody>
</table>

This material is made of meta-aramid paper coated with phenolic resin.

4 First aid measures
• **Potential health effects**

  • **Eye:** Dusts may cause irritation or scratch the surface of the eye.
  
  • **Skin:** Skin contact with dust and fibers of this product may produce itching and transient mechanical irritation.
  
  • **Inhalation:** Inhalation of dust may result in itching and upper respiratory tract irritation.
  
  • **Ingestion:** Ingestion is not expected to be a route of exposure. If ingestion occurs, treat symptomatically.

• **Potential environmental effects**

  This product as shipped is inert and should pose no significant hazard to the environment.

• **Description of first aid measures**

  • **After eye contact:** Rinse opened eye for several minutes under running water.
  
  • **After skin contact:** Wash exposed area with soap and water. Do not rub or scratch irritated area. If chips imbed, seek medical attention.
  
  • **After inhalation:** Supply fresh air. Seek medical attention if irritation persists.
  
  • **After ingestion:** Treat symptomatically. If symptoms persist consult doctor.

• **Medical condition generally aggravated by exposure**

  Persons with a history of chronic lung disease may be at increased risk from exposure to excessive levels of nuisance dusts. Persons with medical conditions generally aggravated by mechanical irritants in the air or on the skin may be at increased risk for a worsening of the underlying condition if exposed.

• **Chronic effects/carcinogenicity**

  This product is an aramid fiber reinforced honeycomb, which is coated with cured phenolic resin. When mechanically working with these products, some dust may be generated. Generated dust may cause eye irritation, coughing and sneezing. Repeated exposure to dust may cause chronic lung disorders.

5 **Firefighting measures**

• **Flammable properties**

  **Flash point:** Not known
• Flammable limits: LFL: Not applicable
  UFL: Not applicable

• Extinguishing media: Water, foam, carbon dioxide, dry chemical.

• Fire and explosion hazards: Decomposition and combustion products may be toxic. Decompose
  in a fire emitting toxic fumes and gases, such as carbon dioxide,
  carbon monoxide, hydrogen cyanide, oxides of nitrogen and other
  toxic and irritation gases can be produced depending on condition
  of combustion.

• Firefighting equipment: Wear full bunker gear including a positive pressure self-contained
  breathing apparatus.

6 Accidental release measures
HEPA vacuum or wet wipes dusts and place in a disposal container. Avoid excess dust generation.

• Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage
Avoid contact with eyes. Avoid breathing dust. Minimize dust generation and accumulation. Store
indoors and in dry and cool area to protect material.

8 Exposure controls/personal protection
• Engineering controls: Provide local exhaust ventilation to keep worker exposure below
  the recommended exposure limits. Minimize dust generation and
  accumulation.
  Personal protection

• Respiratory protection: Where dust is generated use a NIOSH approved half or full face air
  purifying respirator with dust/mist filter cartridges. Use in
  accordance with OSHA regulations under 29 CFR 19 10.134.
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• **Eye protection:** If dust is generated, wear chemical goggles or full-face respirator.

• **Hands protection:** Wear gloves impermeable to glass fibers.

• **Skin protection:** Wear loose fitting, long sleeved clothing and long pants.

• **Hygiene measures:** The health hazards associated with this material when used as recommended are mechanical skin, eye and respiratory irritation associated with the generation of fiberglass composite dusts during machining or cutting.

• **General protective and hygienic measures:**

  • Keep away from foodstuffs, beverages and feed.
  
  • Wash hands thoroughly after use and before eating.
  
  • Immediately remove all soiled and contaminated clothing and shower at the end of the workday.
  
  • Wash work clothes separately before reusing and wipe out washer at the end of the cycle.
  
  • Avoid breathing dust
  
  • Wear safety goggles

• **Exposure guidelines:**

There are no hazardous components in this material has received, however, cutting, milling, drilling, routing, or otherwise fabricating this material may produce the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL TWA</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-NH honeycomb</td>
<td>Total dust 15 mg/m³</td>
<td>N/A</td>
</tr>
</tbody>
</table>

9 **Physical and chemical properties**

• **Appearance:**

• **Form:** Sheets and blocks

• **Colour:** brown

• **Odor:** Slight characteristic odor

• **Physical properties**

• **Boiling point:** Not Applicable
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• Vapor pressure: Not applicable
• pH: Not applicable
• Other information Data not available

10 Stability and reactivity
• Stability: Stable
• Materials to avoid: Strong oxidizing agents, strong acids and bases, especially oxalic and hydrofluoric acid, halogens, and acyl halide.
• Hazardous decomposition products: Toxic fumes and gases, carbon dioxide, carbon monoxide, hydrogen cyanide, oxides of nitrogen and other toxic and irritation gases can be produced depending on condition of combustion.
• Hazardous polymerization: Will not occur

11 Toxicological information
For detailed toxicological information on the components of this material, contact the address listed in Section 1 of this MSDS

12 Ecological information
None found

13 Disposable considerations
• Waste treatment methods
• Recommendation:
If material as supplied becomes a waste, incinerate or landfill in accordance with local, state, and federal laws and regulations. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products. Disposal must be made according to official regulations.

14 Transport information
DOT: Not Regulated
IMO: Not Regulated
15 Regulatory information

Inventory status – fiberglass

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States (TSCA)</td>
<td>Listed</td>
</tr>
<tr>
<td>European Union (EINECS)</td>
<td>Listed</td>
</tr>
<tr>
<td>Canada (DSL)</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Cercla/superfund, 40 CFR117.302: This material contains Reportable Quantity (RQ) Substances: none.

Sara hazard category: This material has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered to meet the following categories: NONE

Sara 313 Information: This material contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

These products do not contain any components exceeding the de minimis amount subject to reporting under Section 313 of the Emergency Planning and Community Right-to-know act of 1986 and of 40 CFR 372.L: NONE

California proposition 65: The following statement is made in compliance with the California Safe Drinking and Toxic Enforcement Act of 1986:

Substances known to the State of California to cause cancer, birth defects or other reproductive harm: NONE

16 Other information

MSDS Prepared for: Aramicore Composite Co., Ltd
MSDS Prepared by: Aramicore Composite Co., Ltd

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Disclaimer of liability:

The information in this MSDS/SDS was obtained from sources which we believe are reliable. Howeve
the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

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