1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AW-2539 (AW-20 / G-2539)
Product Type: Water base adhesive.
Manufactured by: Dural, a division of Multibond, Inc.
550 Marshall Avenue
Dorval, Quebec
Canada H9P 1C9

Emergency Contact Number: CANUTEC (613) 996-6666
Telephone for Information: (514) 636-6230

2. HAZARDS IDENTIFICATION

Emergency Overview:
May cause skin and eye irritation

Appearance: White
Physical State: Liquid
Odor: Mild

OSHA Regulatory Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential Health Effects
Principle Routes of Exposure: Eye contact, Skin contact, Inhalation, Ingestion.

Acute Toxicity
- Eyes: May cause slight irritation.
- Skin: May cause irritation.
- Inhalation: May cause irritation.
- Ingestion: Ingestion may cause stomach discomfort.

Chronic Effects
Chronic Toxicity: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Aggravated Medical Conditions: None known

Environmental Hazard: See Section 12 for additional Ecological Information
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum nitrate nonahydrate</td>
<td>7784-27-2</td>
<td>1 - 6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum nitrate nonahydrate</td>
<td>(vacated)</td>
<td>TWA: 2 mg/m³</td>
</tr>
<tr>
<td>7784-27-2 (1 - 6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

Skin Contact
Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation
None under normal use. Move to fresh air.

Ingestion
Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Notes to Physician
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties
Not flammable

Suitable Extinguishing Media
Water spray, dry chemical, carbon dioxide (CO₂), or foam

Hazardous Combustion Products
Carbon oxides, Nitrogen oxides (NOx).

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA Health Hazard | Flammability | Stability | Physical and Chemical Hazards
--- | --- | --- | ---
1 | 0 | 0 | N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Wear protective gloves/clothing and eye/face protection

Methods for Containment
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dike to collect large liquid spills.

Methods for Cleaning Up
Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE
Handling

Handle in accordance with good industrial hygiene and safety practice

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep cool and protect from sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum nitrate nonahydrate</td>
<td></td>
<td>(vacated) TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Measures

Eye/Face Protection
Eye protection

Skin and Body Protection
Wear protective gloves/clothing

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>0 °C</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.08</td>
</tr>
<tr>
<td>Viscosity</td>
<td>4,000 - 5,000 cP @ 25°C</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>2.5 - 3.5</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>VOC Content</td>
<td>&lt;30 g / L</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions

Incompatible Products
Strong oxidizing agents.

Conditions to Avoid
Do not freeze. Extremes of temperature and direct sunlight.

Hazardous Decomposition Products
Carbon oxides. Nitrogen oxides (NOx).

Hazardous Reactions
Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product does not present an acute toxicity hazard based on known or supplied information

Irritation
Repeated or prolonged exposure may cause irritation of eyes and skin
Components | LD50 Oral | LD50 Dermal | LC50 Inhalation
------- | -------- | -------- | -------
Aluminum nitrate nonahydrate | 3671 mg/kg (Rat) |  | 

Chronic Toxicity

Chronic Toxicity
Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Carcinogenicity
Contains no ingredient listed as a carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of contents/container in accordance with local regulation

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated

MEX
Not regulated

IATA
Not regulated

IMDG/IMO
Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Does not Comply</td>
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<tr>
<td>ENCS</td>
<td>Does not Comply</td>
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<tr>
<td>IECS</td>
<td>Does not Comply</td>
</tr>
<tr>
<td>KECL</td>
<td>Does not Comply</td>
</tr>
<tr>
<td>PICCS</td>
<td>Does not Comply</td>
</tr>
<tr>
<td>AICS</td>
<td>Does not Comply</td>
</tr>
</tbody>
</table>

Dispose of contents/container in accordance with local regulation
U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
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<tbody>
<tr>
<td>Aluminum nitrate nonahydrate</td>
<td>7784-27-2</td>
<td>1 - 6</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Components</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
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<tr>
<td>Aluminum nitrate nonahydrate</td>
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</table>

International Regulations

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
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</thead>
<tbody>
<tr>
<td>Aluminum nitrate nonahydrate</td>
<td></td>
<td>Mexico: TWA = 2 mg/m³</td>
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</table>

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 the CPR.

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

Revision Date: 28-Sep-2012
Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS