1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AF-0044 (TF-44)

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: Paste
Odor: Mild

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

Potential Health Effects:
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: No known effect

Aggravated Medical Conditions: None known

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

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>50 - 60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate 1317-65-3 (50 - 60)</td>
<td>TWA: 15 mg/m³</td>
<td>(vacated) TWA: 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m³</td>
<td>(vacated) TWA: 5 mg/m³</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
Skin Contact Wash skin with soap and water
Inhalation Move to fresh air
Ingestion Clean mouth with water and afterwards drink plenty of water
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

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 1  Flammability 0  Stability 0  Physical and Chemical Hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective gloves/clothing and eye/face protection
Methods for Containment Prevent further leakage or spillage if safe to do so
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 container tightly closed in a dry and well-ventilated place. Keep from freezing.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
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<tr>
<td>Calcium Carbonate</td>
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</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Measures**
- Showers
- Eyewash stations
- Ventilation systems

**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>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.45</td>
</tr>
<tr>
<td>Viscosity</td>
<td>55,000 - 75,000 cps</td>
</tr>
<tr>
<td>Physical State</td>
<td>Paste</td>
</tr>
<tr>
<td>pH</td>
<td>8.5 - 9.5</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**
- None known based on information supplied

**Hazardous Decomposition Products**
- Carbon monoxide (CO)
- Carbon dioxide (CO₂)

**Hazardous Reactions**
- Hazardous polymerization does not occur

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**
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
TSCA Complies
DSL Complies
EINECS/ELINCS Does not Comply
ENCS Does not Comply
IECSC Does not Comply
KECL Does not Comply
PICCS Does not Comply
AICS Does not Comply

U.S. Federal Regulations

Product Information
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

Chronic Toxicity
Carcinogenicity
No information available for mutagenicity and carcinogenicity potential.
**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.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**International Regulations**

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td></td>
<td>Mexico: TWA= 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL= 20 mg/m³</td>
</tr>
</tbody>
</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

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**16. OTHER INFORMATION**

**Prepared By**
Verified by Quality Control Department

**Revision Date**
05-Nov-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