# Material Safety Data Sheet

<table>
<thead>
<tr>
<th>WHMIS</th>
<th>PPE</th>
<th>Transport Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

**Revision Date**: 17-Sep-2013  
**Revision Number**: 5

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**: AC-0058

**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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olive</td>
<td>Paste</td>
<td>Slight</td>
</tr>
</tbody>
</table>

**OSHA Regulatory Status**: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Health Effects**

**Principle Routes of Exposure**: Eye contact, Skin contact, Inhalation.

**Acute Toxicity**

- **Eyes**: Severely irritating to eyes.
- **Skin**: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.  
  May cause allergic skin and respiratory tract reaction. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic over exposure to isocyanates has been reported to cause lung damage.
- **Inhalation**: Harmful if swallowed. Not an expected route of exposure.
- **Ingestion**: Harmful if swallowed. Not an expected route of exposure.

**Chronic Effects**

**Chronic Toxicity**: Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons.

**Aggravated Medical Conditions**: Eye, skin, and respiratory disorders.
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>Methylene bisphenyl isocyanate</td>
<td>101-68-8</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>(MDI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>8052-41-3</td>
<td>3 - 7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>Ceiling: 0.02 ppm</td>
<td>TWA: 0.005 ppm</td>
</tr>
<tr>
<td>101-68-8 (0.1 - 1.0)</td>
<td>Ceiling: 0.2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td></td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td>8052-41-3 (3 - 7)</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.

Skin Contact  Wash skin with soap and water. Remove and wash contaminated clothing before re-use. Seek immediate medical attention/advice.

Inhalation  Move to fresh air in case of accidental inhalation of vapors or decomposition products. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion  Do not induce vomiting without medical advice. Immediate medical attention is required.

Notes to Physician  Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties  Not flammable

Flash Point  135 °F (57.2 °C)

Suitable Extinguishing Media  Dry chemical. Foam. Carbon dioxide (CO₂). Water fog.

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 2  Flammability 2  Stability 1  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 containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from direct sunlight. Keep from freezing.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**
This product, as supplied, contains the following 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>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate</td>
<td>TWA: 0.005 ppm</td>
<td>Ceiling: 0.02 ppm</td>
<td>IDLH: 75 mg/m³</td>
</tr>
<tr>
<td>(MDI)</td>
<td>Ceiling: 0.2 mg/m³</td>
<td></td>
<td>Ceiling: 0.02 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ceiling: 0.2 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 0.005 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 0.05 mg/m³</td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>TWA: 100 ppm</td>
<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 organic vapour 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>Appearance</th>
<th>Olive</th>
<th>Physical State</th>
<th>Paste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Slight</td>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>135 °F (57.2 °C)</td>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Not applicable</td>
<td>Melting Point/Range</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
<td>Flammability Limits in Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.83</td>
<td>VOC Content</td>
<td>105 g/L</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Stability**
Stable under recommended storage conditions

**Incompatible Products**
Strong oxidizing agents.

**Conditions to Avoid**
Exposure to water. Excessive heat.

**Hazardous Decomposition Products**
Carbon oxides. Carbon dioxide (CO₂).
11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information
Damaging by inhalation, by contact with the skin and by ingestion

Irritation
Repeated or prolonged exposure may cause irritation of eyes and skin

<table>
<thead>
<tr>
<th>Components</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>9200 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic Toxicity

Chronic Toxicity
Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very 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

Special Provisions
The shipping classification in this section are for bulk packages only. Shipping classification may differ for non-bulk packaging. Refer to shipping documents for proper package shipping classification.
15. REGULATORY INFORMATION

International Inventories
TSCA Complies
DSL Complies
EINECS Does not Comply
ELINCS Does not Comply
ENCS Does not Comply
IECSC Complies
KECL Does not Comply
PICCS Does not Comply
AICS Complies

U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or 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>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>101-68-8</td>
<td>0.1 - 1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute Health Hazard Yes
Chronic Health Hazard Yes
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

<table>
<thead>
<tr>
<th>Components</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td>5000 lb</td>
<td></td>
</tr>
</tbody>
</table>

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>Methylene bisphenyl isocyanate (MDI)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations
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
D1A  Very toxic materials
D2A  Very toxic materials
D2B  Toxic materials

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene bisphenyl isocyanate (MDI)</td>
<td></td>
<td>Mexico: TWA= 0.005 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA= 0.02 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA= 0.051 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA= 0.2 mg/m³</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prepared By  Verified by Quality Control Department

Revision Date  17-Sep-2013

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