1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AC-1920 (CC-24 / G-1920)
Product Type: Solvent Based Contact Cement
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

Appearance: Straw-colored
Physical State: Liquid
Odor: Hydrocarbon-like

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, Ingestion.

Acute Toxicity
- Eyes: May cause mild irritation.
- Skin: Prolonged skin contact may defat the skin and produce dermatitis. May cause skin irritation and/or dermatitis.
- Inhalation: May cause irritation of respiratory tract. May cause drowsiness and dizziness.
- Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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>Acetone</td>
<td>67-64-1</td>
<td>15 - 40</td>
</tr>
<tr>
<td>Hexanes</td>
<td>110-54-3</td>
<td>15 - 40</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
</table>
| Acetone 67-64-1 (15 - 40) | TWA: 1000 ppm  
TWA: 2400 mg/m³  
(vacated) TWA: 1800 mg/m³  
(vacated) TWA: 750 ppm  
(vacated) STEL: 1000 ppm  
(vacated) STEL: 2400 mg/m³ | = 750 ppm STEL  
= 1321 ppm Acetone |
| Hexanes 110-54-3 (15 - 40) | TWA: 1800 mg/m³  
TWA: 500 ppm  
(vacated) TWA: 180 mg/m³  
(vacated) TWA: 50 ppm | TWA: 50 ppm Skin |
| Toluene 108-88-3 (5 - 10) | TWA: 200 ppm  
(vacated) TWA: 100 ppm  
(vacated) TWA: 375 mg/m³  
(vacated) STEL: 150 ppm  
(vacated) STEL: 560 mg/m³  
Ceiling: 300 ppm | TWA: 20 ppm |

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  Flammable.
Flash Point  -18 °C
Suitable Extinguishing Media  Water spray, dry chemical, carbon dioxide (CO₂), or foam
Hazardous Combustion Products  Carbon oxides
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 away from open flames, hot surfaces and sources of ignition. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>= 750 ppm STEL 1 321 1 Acetone</td>
<td>TWA: 1000 ppm TWA: 2400 mg/m³ (vacated) TWA: 1800 mg/m³ (vacated) TWA: 750 ppm (vacated) STEL: 1000 ppm (vacated) STEL: 2400 mg/m³</td>
<td>IDLH: 2500 ppm 10% LEL TWA: 250 ppm TWA: 590 mg/m³</td>
</tr>
<tr>
<td>Hexanes</td>
<td>TWA: 50 ppm Skin</td>
<td>TWA: 1800 mg/m³ TWA: 500 ppm (vacated) TWA: 180 mg/m³ (vacated) TWA: 50 ppm</td>
<td>IDLH: 1100 ppm 10% LEL TWA: 180 mg/m³ TWA: 50 ppm</td>
</tr>
<tr>
<td>Toluene</td>
<td>TWA: 20 ppm</td>
<td>TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m³ Ceiling: 300 ppm</td>
<td>IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³</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
### 10. STABILITY AND REACTIVITY

**Stability**
- Stable under recommended storage conditions

**Incompatible Products**
- None known based on information supplied

**Conditions to Avoid**
- Heat, flames and sparks.

**Hazardous Decomposition Products**
- None known based on information supplied

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

### 11. TOXICOLOGICAL INFORMATION

**Chronic Toxicity**

**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

<table>
<thead>
<tr>
<th>Components</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>5800 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexanes</td>
<td>25 g/kg (Rat)</td>
<td>3000 mg/kg (Rabbit)</td>
<td>48000 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Toluene</td>
<td>636 mg/kg (Rat)</td>
<td>12124 mg/kg (Rat) 8390 mg/kg (Rabbit)</td>
<td>12.5 mg/L (Rat) 4 h 26700 ppm (Rat) 1 h</td>
</tr>
</tbody>
</table>

**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
<table>
<thead>
<tr>
<th>Components</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td></td>
<td></td>
<td></td>
<td>EC50 = 14500 mg/L 15 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>48 Hr EC50 water flea: 0.0039 mg/L; 48 Hr EC50 water flea: 12700 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[Static]; 48 Hr EC50 Daphnia magna: 12600 mg/L</td>
</tr>
<tr>
<td>Hexanes</td>
<td>LC50= 2.5 mg/L Pimephales promelas 96 h</td>
<td></td>
<td></td>
<td>EC50 = 3.87 mg/L 48 h</td>
</tr>
<tr>
<td>Toluene</td>
<td>EC50 = 12.5 mg/L 72 h</td>
<td>LC50= 13 mg/L Lepomis macrochirius 96 h</td>
<td></td>
<td>EC50 = 11.3 mg/L 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50= 24.0 mg/L Lepomis macrochirius 96 h</td>
<td></td>
<td>EC50 = 310 mg/L 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50= 25 mg/L Pimephales promelas 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT

- Proper Shipping Name: FLAMMABLE LIQUIDS(ACETONE, HEXANE, TOLUENE)
- Hazard Class: 3
- UN-No: 1133
- Packing Group: II

TDG
Regulated

MEX
Regulated

IATA
Regulated

IMDG/IMO
Regulated

15. REGULATORY INFORMATION

International Inventories

- TSCA: Complies
- DSL: Complies
- ENCS: Does not Comply
- IECSC: Does not Comply
AC-1920 (CC-24 / G-1920)

Revision Date 20-Nov-2014

KECL
PICCS
AICS

Complies
Does not Comply
Complies

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>
</tr>
</thead>
<tbody>
<tr>
<td>Hexanes</td>
<td>110-54-3</td>
<td>15 - 40</td>
<td>1.0</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>5 - 10</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
Reactive Hazard

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).

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3 ( 5 - 10 )</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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>Acetone</td>
<td>5000 lb</td>
<td></td>
</tr>
<tr>
<td>Hexanes</td>
<td>5000 lb</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>1000 lb</td>
<td></td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

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>Acetone</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Hexanes</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Toluene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
</table>

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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**
B2  Flammable liquid
D2B  Toxic materials

### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexanes</td>
<td>X</td>
</tr>
<tr>
<td>Toluene</td>
<td>X</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

**Prepared By**  
Verified by Quality Control Department

**Revision Date**  
20-Nov-2014

**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