SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name: J.E. Moser’s® Lightning Bond DeBonder, 119-273

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Debonder for Cyanoacrylate Adhesives

1.3. Details of the supplier of the safety data sheet
Woodworker’s Supply, Inc.
1108 North Glenn Road
Casper, WY 82601
www.woodworker.com

1.4. Emergency telephone number
PROFESSIONAL EMERGENCY RESOURCE SERVICES
Domestic & Canada – 1-800-633-8253
International – 1-801-629-0667

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
- Flam. Liq. 2 H225
- Eye Irrit. 2A H319
- STOT SE 3 H336

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US)

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
- H225 - Highly flammable liquid and vapour
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US):
- P201 - Obtain special instructions before use
- P210 - Keep away from heat sparks/open flames/hot surfaces. - No smoking
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P308+P313 - IF exposed or concerned: Get medical advice/attention
- P403+P235 - Store in a well-ventilated place. Keep cool
- P501 - Dispose of contents/container to local, regional, national, and international regulations

SECTION 3: Composition/information on ingredients

Substances
Hazardous ingredients:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>(CAS No) 67-64-1</td>
<td>40-70</td>
<td>Flam. Liq. 2, H225, Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td>Propylene Carbonate</td>
<td>(CAS No) 108-32-7</td>
<td>30-60</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures
First aid measures general
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First aid measures after inhalation
Remove victim from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.
### Section 4: First aid measures after skin contact

- **Symptoms/injuries after skin contact**: May cause irritation to skin.

### Section 4: Most important symptoms and effects, both acute and delayed

**Symptoms/injuries after ingestion**: Gastrointestinal complaints. Convulsions. Coma.

**Symptoms/injuries after eye contact**: Cause serious eye irritation.

**Symptoms/injuries after skin contact**: May cause irritation to skin.

**Symptoms/injuries after inhalation**: May cause drowsiness or dizziness. May cause respiratory irritation.

**Symptoms/injuries after eye contact**: Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist.

**Symptoms/injuries after ingestion**: Rinse mouth. Immediately after ingestion: give lots of water to drink. Do not give milk/oil to drink. Do NOT induce vomiting. Obtain emergency medical attention.

### Section 5: Firefighting measures

#### 5.1. Extinguishing media

- **Suitable extinguishing media**: Water spray or fog. Carbon dioxide. Dry chemical powder. Foam. Sand.
- **Unsuitable extinguishing media**: Do not use a solid water stream as it may scatter and spread fire. Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- **Fire hazard**: Extremely flammable liquid and vapour.
- **Explosion hazard**: May form flammable/explosive vapour-air mixture.
- **Reactivity**: No dangerous reactions known under normal conditions of use.

#### 5.3. Advice for firefighters

- **Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- **Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.
- **Other information**: Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- **General measures**: Use special care to avoid static electric charges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing (dust, vapor, mist, gas). Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid all contact with skin, eyes, or clothing.

- **For non-emergency personnel**: Use appropriate personal protection equipment (PPE).

- **Emergency procedures**: Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- **For containment**: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools.

- **Methods for cleaning up**: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools and equipment in clean-up procedure.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/dust/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures: Do no eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.

Storage conditions: Store in a cool, well ventilated and fireproof area. Keep container tightly closed. Keep away from sources of ignition. Keep away from direct sunlight. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemence AC68</th>
<th>OSHA PEL (TWA) (ppm)</th>
<th>1000 Acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (STEL) (ppm)</td>
<td>1000 Acetone</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (Ceiling) (ppm)</td>
<td>750 ppm Acetone</td>
</tr>
</tbody>
</table>

acetone (67-64-1)

<table>
<thead>
<tr>
<th>USA ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>500 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.


Materials for protective clothing: Wear fire/flame resistant/retardant clothing.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Colorless to pale yellow liquid.

Colour: Colourless to light yellow.

Odour: Ketones.

Boiling point: 133 – 242°F

Relative density of saturated gas/air mixture: 2 – 3.52

Flash point: > - 4°F

Self ignition temperature: ~ 465 °C

Specific Gravity: 0.87-0.95

Vapor Density: 2.0 – 3.52

Solubility: In water, material is partially soluble.

Water: 40 - 80 %

Explosive limits: 1.8 - 12.8 vol%
SECTION 10: Stability and reactivity

VOC content: 40% - 80%

10.1. Reactivity
No dangerous reactions known under normal conditions of use.

10.2. Chemical stability
Extremely flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions
Will not occur. Stable under normal conditions.

10.4. Conditions to avoid
Avoid high temperatures, direct sunlight, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acetone (67-64-1)
LD50 oral rat 5800 mg/kg (Rat; Experimental value, Rat; Experimental value)
LD50 dermal rabbit 20000 mg/kg (Rabbit; Experimental value, Rabbit; Experimental value)
LC50 inhalation rat (mg/l) 71 mg/l/4h (76 mg/l/4h; Rat; Rat; Experimental value; Experimental value)
LC50 inhalation rat (ppm) 30000 ppm/4h (Rat; Experimental value, Rat; Experimental value)

Propylene carbonate (108-32-7)
LD50 oral rat > 20000 mg/kg (Rat)
LD50 dermal rabbit > 24000 mg/kg (Rabbit)

SECTION 12: Ecological information

12.1. Toxicity

acetone (67-64-1)
LC50 fishes 6210 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1 8800 mg/l (48 h; Daphnia pulex)
LC50 fish 2 5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1 13000 ppm (96 h; Gambusia affinis; Turbulent water)
TLM fish 2 > 1000 ppm (96 h; Pices)
Threshold limit other aquatic organisms 1 3000 mg/l (Plankton)
Threshold limit other aquatic organisms 2 28 mg/l (Protozoa)
Threshold limit algae 1 7500 mg/l (Scenedesmus quadricauda; pH = 7)
Threshold limit algae 2 3400 mg/l (48 h; Chlorella sp.)

Propylene carbonate (108-32-7)
LC50 fishes 1 5300 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1 > 1000 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1 900 mg/l (72 h; Scenedesmus subspicatus; Biomass)

12.2. Persistence and degradability

Chemence AC68
Persistence and degradability Not established.

acetone (67-64-1)
Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD) 1.43 g O²/g substance
Chemical oxygen demand (COD) 1.92 g O²/g substance
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>acetone (67-64-1)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ThOD</td>
<td>2.20 g O²/g substance</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>(20 day(s)) 0.872</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propylene carbonate (108-32-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Readily biodegradable in water.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>0.046 g O²/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1.29 g O²/g substance</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemence AC68</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>acetone (67-64-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>0.69 (Places)</td>
</tr>
<tr>
<td>BCF other aquatic organisms 1</td>
<td>3</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.24 (Test data)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Not bioaccumulative.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propylene carbonate (108-32-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>-0.48 - -0.41 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation: not applicable.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>acetone (67-64-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>0.0237 N/m</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Sewage disposal recommendations</th>
<th>Do not discharge into drains or the environment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste disposal recommendations</td>
<td>Dispose in a safe manner in accordance with local/national regulations.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Handle empty containers with care because residual vapours are flammable.</td>
</tr>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

SECTION 14: Transport information

In accordance with DOT

<table>
<thead>
<tr>
<th>Transport document description</th>
<th>UN1090 Acetone, 3, II</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No.(DOT)</td>
<td>1090</td>
</tr>
<tr>
<td>DOT NA no.</td>
<td>UN1090</td>
</tr>
<tr>
<td>DOT Proper Shipping Name</td>
<td>Acetone</td>
</tr>
<tr>
<td>Department of Transportation (DOT) Hazard Classes</td>
<td>3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120</td>
</tr>
<tr>
<td>Hazard labels (DOT)</td>
<td>3 - Flammable liquids</td>
</tr>
</tbody>
</table>

Packing group (DOT) : II - Medium Danger

<table>
<thead>
<tr>
<th>DOT Special Provisions (49 CFR 172.102)</th>
<th>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal ..............178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Packaging Exceptions (49 CFR 173.xxx)</td>
<td>150</td>
</tr>
<tr>
<td>DOT Packaging Non Bulk (49 CFR 173.xxx)</td>
<td>202</td>
</tr>
</tbody>
</table>
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Packaging Bulk (49 CFR 173.xxx) : 242

Additional information
Other information : No supplementary information available.

ADR
Packing group : II
Class 3 - Flammable liquids
Hazard identification number : 33
Classification code : F1
Danger labels (ADR) 3 - Flammable liquids
Proper shipping name : Acetone

Transport by sea
DOT Vessel Stowage Location : B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Air transport
DOT Quantity Limitations Passenger : 5 L
Aircraft/rail (49 CFR 173.27) : 
DOT Quantity Limitations : 60 L
Cargo aircraft only (49 CFR 175.75) : 

SECTION 15: Regulatory information

15.1. US Federal regulations
Chemence AC68
SARA Section 311/312 Hazard Classes
Fire hazard
Immediate (acute) health hazard
acetone (67-64-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
RQ (Reportable quantity, section 304 of EPA’s List of Lists) : 5000 lb
Propylene carbonate (108-32-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA
Acetone (67-64-1)
Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification
Class B Division 2 - Flammable Liquid Class D Division 2
Subdivision B - Toxic material causing other toxic effects

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2 H225
Eye Irrit. 2A H319
STOT SE 3 H336

Classification according to Directive 67/548/EEC or 1999/45/EC
F; R11
Xi; R36
R66
R67

15.2.2. National regulations
Acetone (67-64-1)
Listed on the Canadian Ingredient Disclosure List
### SECTION 16: Other information

**Data sources**


Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity - Single exposure, Category 3, Narcosis</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
</tbody>
</table>

**HMIS III Rating**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2 Moderate Hazard - Temporary or minor injury may occur</td>
</tr>
<tr>
<td>Flammability</td>
<td>3 Serious Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>0 Minimal Hazard</td>
</tr>
</tbody>
</table>

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**SDS US (GHS HazCom 2012)**

*This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.*

**Revision Date:** 6/30/2014

**Distributor:** Woodworker's Supply, Inc.

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