PRODUCT NAME: Bead Sealer
PART NUMBER(S): 710-1204
GENERAL USE: For sealing small air leaks between tire bead and the wheel
PRODUCT DESCRIPTION: Liquid with solvent odor that is black in color

MANUFACTURER’S NAME: 31 Incorporated
STREET ADDRESS: 100 Enterprise Drive
CITY, STATE, ZIP, COUNTRY Newcomerstown, OH 43832 USA
DATE PREPARED: Jan. 1, 2010
SUPERSEDES: Jan. 15, 2009
FOR INFORMATION, CONTACT: (740) 498-8324; info@31inc.com
CHEM • TEL: (800) 255-3924 or (813) 248-0585

SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>% (by weight)</th>
<th>CAS #</th>
<th>TLV UNITS</th>
<th>Hazard Symbol</th>
<th>RISK PHRASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>40 - 65%</td>
<td>108-88-3</td>
<td>100 PPM</td>
<td>Flammable-Irritant</td>
<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>30 - 40%</td>
<td>142-83-5</td>
<td>400 PPM</td>
<td>Flammable-Irritant</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Contact with eyes will cause irritation. Contact with skin may cause irritation.

ACUTE EFFECTS OF OVEREXPOSURE:

Inhalation: May cause dizziness
Skin: May cause irritation upon prolonged or repeated contact
Eyes: May cause eye irritation.
Ingestion: May cause irritation of gastrointestinal tract.

CHRONIC EFFECTS OF OVEREXPOSURE:
N/A

OTHER HEALTH HAZARDS:
N/A

SECTION 4 - FIRST AID MEASURES

INHALATION: If difficulty breathing, dizziness, or lightheadedness is experienced, remove victim to fresh air. If continued breathing difficulties occur, administer oxygen and seek immediate medical attention.

SKIN: Wash with soap and large quantities of water. If irritation persists, seek medical attention.

EYES: Flush with large quantities of clean water for at least 15 minutes. Seek medical attention.

INGESTION: Do NOT give anything by mouth or induce vomiting. Seek immediate medical attention.
SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical, Fire Fighting Apparatus
Autoignitor 475˚ - 500˚ F

FIRE FIGHTING PROCEDURES: Use of self contained breathing apparatus is recommended for fire fighters

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable and may be ignited by heat, sparks, flame, or other source of ignition.
Closed containers can explode due to buildup of pressure when exposed to extreme heat.
Keep away from heat or open flame. Mist or spray may be flammable below oil normal flash point.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
COMBUSTIBLE - Evacuate and ventilate area; remove all sources of sparks, ignition, and open flames; confine and absorb into approved absorbent; place material into approved containers for disposal following all Local, State, and Federal regulations; Do NOT wash to sewer or waterway. Note: Small amounts may be taken up with inert material.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapors may form explosive mixtures in air. All sources of ignition should be controlled. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS | NIOSH | ACGIH
| TWA ppm | TWA mg/m³ | STEL ppm | STEL mg/m³ | TWA ppm | TWA mg/m³ | STEL ppm | STEL mg/m³ |
|---------|------------|----------|------------|-------------|------------|----------|------------|-------------|
| Toluene | 100 PPM | | | | | | |
| Heptane | 400 PPM | | | | | | |

PERSONAL PROTECTION:
Respiratory Protection: Use NIOSH approved cartridge or gas mask.
Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

Ventilation: Mechanical ventilation to keep product within specified TLV ranges.

Protective Gloves: Imperable gloves advised.

Eye Protection: Protective eyeglasses or chemical safety goggles.
Refer to 29 CFR 1910.133 or European Standard EN 166.

Other: Work clothes

Work / Hygienic Practices: Practice safe workplace habits. Minimize body contact with this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: liquid with solvent odor that is black in color
VAPOR PRESSURE AT 20°C: C: 100°F 1.08
BOILING POINT / RANGE: 210˚ F SPECIFIC GRAVITY: 0.871
FREEZING POINT: N/A SOLUBILITY IN WATER (% by weight): N/A
FLASH POINT (Test Methods): 16˚ F TCC D56 V.O.C.: 75 - 90%
FLAMMABLE LIMITS IN AIR (% by volume): Lower 1.05 VAPOR DENSITY: N/A
EVAPORATION RATE: 1 minute 05 seconds
## SECTION 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>STABILITY:</th>
<th>UNSTABLE:</th>
<th>STABLE:</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONDITIONS TO AVOID:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INCOMPATIBILITY (Materials to Avoid):
- strong acids, alkalie & oxidizers

HAZARDOUS COMBUSTION or DECOMPOSITION PRODUCTS: no degradation date is available

HAZARDOUS POLYMERIZATION:
- MAY OCCUR: x
- CONDITIONS TO AVOID: alkalies

### SECTION 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>LD50 OF INGREDIENT</th>
<th>LC50 OF INGREDIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td></td>
<td>LD 5 oral</td>
<td>acute 636 mg/k</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>gas LS 53</td>
<td>acute 49000 mg/3-4 hr</td>
</tr>
</tbody>
</table>

Refer to the emergency overview hazards identification in Section 3 page 1 & 2

### SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product, it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

### SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors or fumes in a closed disposal container creating a dangerous environment. Refer to “40 CFR Protection of Environment Parts 260 - 299” for complete waste disposal regulations. Consult your local, state, or federal Environmental Protection Agency (EPA) before disposing of any chemicals. Do NOT flush to sanitary sewer or waterway.

### SECTION 14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>PROPER SHIPPING NAME: Flammable Liquids NOS</th>
<th>IATA HAZARD CLASS/Pack Group: PG II</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT HAZARD CLASS / Pack Group: 3 Flammable liquids / II</td>
<td>IMDG HAZARD CLASS:</td>
</tr>
<tr>
<td>UN / NA IDENTIFICATION NUMBER:</td>
<td>RID/ADR Dangerous Goods Code:</td>
</tr>
<tr>
<td>LABEL: UN 1993</td>
<td>UN TDG Class / Pack Group: 3 / PG II</td>
</tr>
</tbody>
</table>

HAZARD SYMBOLS:

Note: Transportation information if for reference + flammable liquids

United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials, and methods of shipping.
**SECTION 15 - REGULATORY INFORMATION**

**TSCA (USA - Toxic Substance Control Act)**
All components of this product are listed on the U.S. Toxic Substance Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLLE III (USA - Superfund Amendments and Reauthorization Act)**
- 311/312 Hazard Categories: extreme hazardous substance list
- Immediate health in 49 cfr
- 313 Reportable Ingredients: listed as Irritant / Flammable
- None

**CERCLA (USA - Comprehensive Response Compensation and Liability Act)**
None

**CPR (Canadian Controlled Products Regulations)**
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**IDL (Canadian Ingredient Disclosure List)**
Components of this product identified by CAS number are listed on the Canadian Ingredient Disclosure List are shown in Section 2.

**DSL / NDSL (Canadian domestic Substances List / Non-Domestic Substances List)**
Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as “hazardous” are listed in Section 2 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**
Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

**RISK PHRASES:**
- R36 / 38 IRRITATING TO EYES & SKIN

**SYMBOL(S) REQUIRED FOR LABEL:**
- FLAMMABLE
- IRRITANT

**SAFETY PHRASES:**
Keep away from extreme heat and open flame

**SECTION 16 - OTHER INFORMATION**

**NOTES & FULL R-PHRASE TEXT:**
R36/38 Irritating to eyes and skin

**HMIS HAZARD RATINGS:**
- HEALTH 2
- FLAMMABILITY 3
- REACTIVITY 0
- PERSONAL PROTECTIVE EQUIPMENT A

**REVISION SUMMARY:**

**MSDS PREPARED BY:**
Charles Muhs, Technical Advisor
100 Enterprise Dr.
Newcomerstown, OH 43832
(740) 498-8324 chuck@31inc.com

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