# SAFETY DATA SHEET

## 711: TWO COMPONENT - HARDENER

Conforms to 1910.1200  
Issued: Sept. 12, 2018  
Supersedes: May 30, 2016  

### 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th><strong>Product Name:</strong></th>
<th>TimberGuard Sport Hardener</th>
<th><strong>Product Number:</strong></th>
<th>711</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended Use:</strong></td>
<td>Hardener for two component sport floor coating</td>
<td><strong>Uses Advised Against:</strong></td>
<td>Other than per labelled instructions</td>
</tr>
<tr>
<td>To be used with TimberGuard Sport Floor Coating.</td>
<td>Product intended for commercial and industrial use only.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Manufacturer Address:**
Amano Pioneer Eclipse Corporation  
P.O. Box 909  
1 Eclipse Road  
Sparta, NC 28675  
Telephone: 1-336-372-8080  
Email: sds@pioneereclipse.com  
Internet: www.pioneereclipse.com

**FOR CHEMICAL EMERGENCY:**  
Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.  
Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

## 2: HAZARDS IDENTIFICATION

**Classification:**  
Acute Toxicity (Inhalation) -Category 2  
Skin Irritation - Category 2  
Eye Irritation - Category 2  
Specific Target Organ Toxicity (Single Exposure) - Category 3

**Signal Word:**  
DANGER

**Pictogram:**  
![Pictogram](image)

**Hazard Statements:**  
Fatal if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

**Precautionary Statements:**  
Do not breathe vapors, mist or spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, eye protection and face protection.  
In case of inadequate ventilation, wear respiratory protection.  
Take off contaminated clothing and wash it before reuse.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical attention.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTER/doctor.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove.  
Continue rinsing.  
If eye irritation persists: Get medical attention.  
Store in a well-ventilated place.  
Keep container tightly closed.  
Store locked up.  
Dispose of contents and container in accordance with local, regional, national and international regulations.

**Other Hazards:**  
None known
Supplemental Information: None

3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Weight % *</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>30 - 60</td>
</tr>
<tr>
<td>pentaerythritol triaziridin-1-ylpropanoate</td>
<td>57116-45-7</td>
<td>30 - 60</td>
</tr>
</tbody>
</table>

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES

DECRPIPTION OF FIRST AID MEASURES

Eye Contact: Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. If irritation persists, get medical attention.

Skin Contact: Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. If irritation persists, get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Contact with liquid may product severe eye irritation, causing sever conjunctiva irritation, corneal defects and possibly permanent loss of vision.

Skin Contact: May cause skin irritation.

Inhalation: Harmful if inhaled. May cause severe respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache.

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: Use NFPA Class B fire extinguishers (CO₂, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

Specific Hazards: Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up. If water is used, fog nozzles are preferable.

Protective Equipment and Precautions: Fire fighters should wear NIOSH approved breathing apparatus. During emergency conditions, overexposure to decomposition products may cause a health hazard. Obtain medical attention.


6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away. Ensure adequate ventilation. Floors may be slippery; use care to avoid falling.

Environment Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

CONTAINMENT AND CLEAN-UP

Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.

Large Spills: Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal.

Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.
7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wear suitable protective clothing, eye and face protection.

Conditions for Safe Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F).

Other Information: Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Components do not have occupational exposure limits.

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists.

Skin Protection: Chemical resistant gloves are recommended.

Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid

Odor: Solvent

Odor Threshold: Not available

pH: Not applicable

Freezing Point: Not available

Boiling Point: 397 °F / 203 ºC

Flash Point: 200 °F / 93 ºC

Evaporation Rate: Slower than diethyl ether

Flammability (solid/gas): not applicable to liquids

Flammability limits: Not available

Vapor Pressure: Not determined

Vapor Density: Heavier than air

Relative Density: 9.1 lb/gal @ 68°F / 1.09 kg/l @ 20°C

Solubility: insoluble in water

Partition Coefficient: Not determined

Auto Ignition temperature: Not determined

Decomposition Temperature: Not available

Viscosity: 10 - 35 cp

VOC: 53%

10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Stability: Stable under normal conditions.

Hazardous reactions: None expected

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

Incompatible materials: Do not mix with other chemicals unless stated on the product label.


11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.
LOCAL EFFECTS
Skin contact: Causes skin irritation.
Eye contact: Causes eye irritation.
Sensitization: None expected
Chronic effects: Harmful in inhaled.

SPECIFIC EFFECTS
Carcinogenicity: None known
Reproductive effects: None known*
Teratogenicity: None known
Mutagenicity: None known

COMPONENT INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral-Rat (mg/kg)</th>
<th>LD50 Dermal-Rabbit (mg/kg)</th>
<th>LC50 Inhalation-Rat (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>4320</td>
<td>8000</td>
<td>not available</td>
</tr>
<tr>
<td>pentaerythritol tris (3-aziridin-1-ylpropionate)</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
</tr>
</tbody>
</table>

Carcinogenicity: Components are not known to be listed carcinogens (IARC, NTP, OSHA).

* This product contains N-methyl-2-pyrrolidone which is listed with the State of California as a developmental toxin.

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.
UN Number: N/A
UN Proper Shipping Name: N/A
Hazard Class: N/A
Packing Group: N/A
Marine Pollutant: N/A
Transport in Bulk: N/A
Other Information: Reclassified as a combustible liquid.

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>SARA 302/304</th>
<th>SARA 313</th>
<th>CERCLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>N/L</td>
<td>present</td>
<td>N/L</td>
</tr>
</tbody>
</table>

STATE RIGHT-TO-KNOW STATUS:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>MA - RTK</th>
<th>NJ - RTK</th>
<th>PA - RTK</th>
<th>RI - RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>present</td>
<td>present</td>
<td>present</td>
<td>present</td>
</tr>
</tbody>
</table>
CALIFORNIA PROPOSITION 65:

**WARNING:** This product can expose you to n-Methylpyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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<tr>
<th>Ingredient</th>
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<tbody>
<tr>
<td>n-Methylpyrrolidone</td>
<td>872-50-4</td>
<td>53</td>
</tr>
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</table>

CANADA REGULATIONS/REPORTING:
This product has been classified in accordance with the hazard criteria of the Hazardous Product Regulation (HPR) and the SDS contains the information required by the HPR.

**16: OTHER INFORMATION**

**Abbreviations Used:**
N/A - Not applicable
N/E - Not Established
N/L - Not Listed

**Revision Information:**
Sept. 12, 2018 - Revision § 15

Health: 3
Flammability: 0
Reactivity: 0

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This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

**IMPORTANT SAFETY INFORMATION**
**DO NOT DISCARD**
**PLEASE ROUTE TO COMPANY SAFETY OFFICER**