### SECTION 1: Identification

#### 1.1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>All-Bond 3/ ACE All-Bond TE Part A</td>
</tr>
</tbody>
</table>

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture: For Rx Only

#### 1.3. Supplier

**Manufacturer**
Bisco, Inc.
1100 W. Irving Park Rd.
Schaumburg, IL 60193
T 1.847.534.6000 - F 1.847.891.5049
sales@bisco.com - www.bisco.com

#### 1.4. Emergency telephone number

Emergency number: CHEMTREC - 24-Hour Hazmat Emergency Communications Center
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

**GHS-US classification**
- Flammable liquids: H225 - Highly flammable liquid and vapor
- Skin corrosion/irritation: H315 - Causes skin irritation
- Serious eye damage/eye irritation: H319 - Causes serious eye irritation
- Specific target organ toxicity (single exposure): H335 - May cause respiratory irritation

Full text of H statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

**GHS-US labeling**

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS-US)</th>
<th><img src="image" alt="Hazard pictograms" /></th>
</tr>
</thead>
</table>
| Hazard statements (GHS-US) | H225 - Highly flammable liquid and vapor
|                           | H315 - Causes skin irritation
|                           | H319 - Causes serious eye irritation
|                           | H335 - May cause respiratory irritation
| Precautionary statements (GHS-US) | P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
|                           | P233 - Keep container tightly closed
|                           | P240 - Ground/Bond container and receiving equipment
|                           | P241 - Use explosion-proof ventilating equipment
|                           | P242 - Use only non-sparking tools
|                           | P243 - Take precautionary measures against static discharge
|                           | P261 - Avoid breathing vapors
|                           | P264 - Wash hands thoroughly after handling
|                           | P271 - Use only outdoors or in a well-ventilated area
|                           | P280 - Wear eye protection, face protection, protective gloves
|                           | P302+P352 - If on skin: Wash with plenty of Wash skin with soap and water
|                           | P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing, Rinse skin with water/shower
|                           | P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
|                           | P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
|                           | P312 - Call Call a doctor, a POISON CENTER if you feel unwell
2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>(CAS-No.) 64-17-5</td>
<td>&gt;= 85</td>
<td>Flam. Liq. 2, H225&lt;br&gt;Skin Irrit. 2, H315&lt;br&gt;Eye Irrit. 2, H319&lt;br&gt;STOT SE 3, H335</td>
</tr>
<tr>
<td>Sodium NTG-GMA</td>
<td>(CAS-No.) 133736-31-9</td>
<td>1 - 5</td>
<td>Acute Tox. 4 (Oral), H302&lt;br&gt;Skin Irrit. 2, H315&lt;br&gt;Eye Irrit. 2, H319&lt;br&gt;STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: Irritation.

Symptoms/effects after eye contact: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


5.2. Specific hazards arising from the chemical

Fire hazard: Highly flammable liquid and vapor.

Reactivity: Highly flammable liquid and vapor.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
**SECTION 6: Accidental release measures**

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

6.1.1. **For non-emergency personnel**

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing mist, vapors. Avoid contact with skin and eyes.

6.1.2. **For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. **Environmental precautions**

Avoid release to the environment.

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

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. **Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage**

7.1. **Precautions for safe handling**

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing mist, vapors. Avoid contact with skin and eyes.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. **Conditions for safe storage, including any incompatibilities**

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**SECTION 8: Exposure controls/personal protection**

8.1. **Control parameters**

<table>
<thead>
<tr>
<th>Ethanol (64-17-5)</th>
<th>ACGIH STEL (ppm)</th>
<th>1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium NTG-GMA</td>
<td>(133736-31-9)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. **Appropriate engineering controls**

Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. **Individual protection measures/Personal protective equipment**

**Hand protection:**

Protective gloves

**Eye protection:**

Protective goggles

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colourless to light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol odour</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 78 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>14 °C</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>44.6 mm Hg</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.8 - 1.2</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

**Ethanol (64-17-5)**

| LD50 oral rat | 10740 mg/kg (Rat; Experimental value,Rat; Experimental value) |

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<table>
<thead>
<tr>
<th><strong>Ethanol (64-17-5)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 16000 mg/kg (Rabbit; Literature study)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>10740 mg/kg body weight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Sodium NTG-GMA (133736-31-9)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

**Ethanol (64-17-5)**
IARC group: 1 - Carcinogenic to humans

**Sodium NTG-GMA (133736-31-9)**
IARC group: 4 - Probably not carcinogenic to humans
Reproductive toxicity: Not classified
Specific target organ toxicity – single exposure: May cause respiratory irritation.

**Sodium NTG-GMA (133736-31-9)**
LOAEL (oral, rat): N/A mg/kg body weight
LOAEL (dermal, rat/rabbit): N/A mg/kg body weight
LOAEC (inhalation, rat, gas): N/A ppmV/4h
LOAEC (inhalation, rat, vapour): N/A mg/l/4h
LOAEC (inhalation, rat, dust/mist/fume): N/A mg/l/4h

Specific target organ toxicity – repeated exposure: Not classified

**Sodium NTG-GMA (133736-31-9)**
LOAEL (oral, rat, 90 days): N/A mg/kg bodyweight/day
LOAEL (dermal, rat/rabbit, 90 days): N/A mg/kg bodyweight/day
LOAEC (inhalation, rat, gas, 90 days): N/A ppmV/6h/day
LOAEC (inhalation, rat, vapour, 90 days): N/A mg/l/6h/day
LOAEC (inhalation, rat, dust/mist/fume, 90 days): N/A mg/l/6h/day

Aspiration hazard: Not classified
Symptoms/effects after inhalation: May cause respiratory irritation.
Symptoms/effects after skin contact: Irritation.
Symptoms/effects after eye contact: Eye irritation.

**SECTION 12: Ecological information**

**12.1. Toxicity**
Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**Ethanol (64-17-5)**
LC50 fish 1: 14200 mg/l (LC50: US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)

**12.2. Persistence and degradability**

**Ethanol (64-17-5)**
Biochemical oxygen demand (BOD): 0.8 - 0.967 g O₂/g substance
Chemical oxygen demand (COD): 1.7 g O₂/g substance
Ethanol (64-17-5)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThOD</td>
<td>2.1 g O₂/g substance</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>0.43</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

Ethanol (64-17-5)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>1 (BCF; Other; 72 h; Cyprinus carpio; Static system; Fresh water; Read-across)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.31 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

Ethanol (64-17-5)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>0.022 N/m (20 °C)</td>
</tr>
<tr>
<td>Log Koc</td>
<td>Koc,PCKOCWIN v1.66; 1; Read-across</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

Effect on the global warming: No known effects from this product.
GWPmix comment: No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Additional information: Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Not applicable

TDG
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations
No additional information available

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available
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15.3. US State regulations
No additional information available

SECTION 16: Other information

Revision date: 12/13/2017

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapor</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.