SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture
Product Name: ALTROFIX 31 A

Intended Use of the Product
Adhesive

Name, Address, and Telephone of the Responsible Party
Company
Altro Floors, Inc.
80 Industrial Way
Wilmington, MA 01887
978-657-6464

Emergency Telephone Number

Emergency Number: CHEMTREC 1-800-424-9300/ CANUTEC 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)
Skin Irrit. 2  H315
Eye Irrit. 2A  H319
Skin Sens. 1  H317
Repr. 2  H361
Aquatic Acute 3  H402
Aquatic Chronic 2  H411

Full text of H-phrases: see section 16

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US): 

Signal Word (GHS-US): Danger

Hazard Statements (GHS-US)

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H361 - Suspected of damaging fertility or the unborn child.
H402 - Harmful to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

P261 - Avoid breathing dust, mist, spray, vapors.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.
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Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Mixture |
|------------------|------------------|------------------|
| Name              | Product Identifier | % (w/w) |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer) | (CAS No) 102900-03-8 | 10 - 30 |
| Bisphenol A-epichlorohydrin polymer | (CAS No) 25068-38-6 | 10 - 30 |
| Alkyl (C12-14) glycidyl ether | (CAS No) 68609-97-2 | 1 - 5 |
| Propanol, oxybis-, dibenzoate | (CAS No) 27138-31-4 | 1 - 5 |
| Trimethylolpropane triacrylate | (CAS No) 15625-89-5 | 3 - 7 |
| Quartz* | (CAS No) 14808-60-7 | 0.1 - 1 |

*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Inhalation: May cause respiratory irritation.

Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Silicon oxides.

09/19/2018 EN (English US) 2/7
Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (dust, vapor, mist, spray).
For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.

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

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.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Specific End Use(s)
Adhesive

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mexico</th>
<th>USA ACGIH</th>
<th>USA OSHA</th>
<th>USA NIOSH</th>
<th>USA IDLH</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Manitoba</th>
<th>New Brunswick</th>
<th>Newfoundland &amp; Labrador</th>
<th>Nova Scotia</th>
<th>Nunavut</th>
<th>Northwest Territories</th>
<th>Ontario</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>OEL TWA (mg/m³)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>OSHA PEL (STEL) (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>US IDLH (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>0.1 mg/m³ (respirable fraction)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>250 mppcf/%SiO₂+5, 10mg/m³/%SiO₂+2</td>
<td>0.05 mg/m³ (respirable dust)</td>
<td>50 mg/m³ (respirable dust)</td>
<td>0.025 mg/m³ (respirable particulate)</td>
<td>0.025 mg/m³ (respirable)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>0.1 mg/m³ (respirable fraction)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>0.1 mg/m³ (respirable mass)</td>
<td>0.1 mg/m³ (respirable mass)</td>
<td>0.10 mg/m³ (designated substances regulation-respirable)</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Province</th>
<th>OEL TWA (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prince Edward Island</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Québec</td>
<td>0.1 mg/m³ (respirable dust)</td>
<td></td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>0.05 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Yukon</td>
<td>300 particle/mL</td>
<td></td>
</tr>
</tbody>
</table>

**Exposure Controls**

**Appropriate Engineering Controls**: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.


**Materials for Protective Clothing**: Chemically resistant materials and fabrics.

**Hand Protection**: Wear chemically resistant protective gloves.

**Eye Protection**: Chemical goggles or safety glasses.

**Skin and Body Protection**: Wear suitable protective clothing.

**Respiratory Protection**: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls**: Do not allow the product to be released into the environment.

**Consumer Exposure Controls**: Do not eat, drink or smoke during use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

- **Physical State**: Liquid
- **Appearance**: Beige Paste
- **Odor**: Low Odor
- **Odor Threshold**: Not available
- **pH**: Not available
- **Evaporation Rate**: Not available
- **Melting Point**: Not available
- **Freezing Point**: 0 °C (32 °F)
- **Boiling Point**: 204 - 218 °C (399 - 424 °F)
- **Flash Point**: > 93 °C (200 °F) Tag Closed Cup
- **Auto-ignition Temperature**: Not available
- **Decomposition Temperature**: Not available
- **Flammability (solid, gas)**: Not available
- **Lower Flammable Limit**: Not available
- **Upper Flammable Limit**: Not available
- **Vapor Pressure**: Not available
- **Relative Vapor Density at 20 °C**: Not available
- **Relative Density**: Not available
- **Specific Gravity**: 1.5
- **Solubility**: Not available
- **Partition Coefficient: N-Octanol/Water**: Not available
- **Viscosity**: Approximately 65,000 cps
- **Explosion Data – Sensitivity to Mechanical Impact**: Not expected to present an explosion hazard due to mechanical impact.
- **Explosion Data – Sensitivity to Static Discharge**: Not expected to present an explosion hazard due to static discharge.
- **VOC Content (SCAQMD Rule 1168)**: <12 g/L (<0.1 lbs/gal)
SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.


SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>5000 mg/kg</td>
<td>5000 mg/kg</td>
</tr>
<tr>
<td>Bisphenol A-epichlorohydrin polymer (25068-38-6)</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Trimethylolpropane triacrylate (15625-89-5)</td>
<td>5000 mg/kg</td>
<td>5000.00 mg/kg body weight</td>
</tr>
</tbody>
</table>

IARC Group

<table>
<thead>
<tr>
<th>Substance</th>
<th>IARC Group</th>
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<tr>
<td>Quartz (14808-60-7)</td>
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</tr>
</tbody>
</table>

National Toxicology Program (NTP) Status

<table>
<thead>
<tr>
<th>Substance</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>Known Human Carcinogens.</td>
</tr>
<tr>
<td>Trimethylolpropane triacrylate (15625-89-5)</td>
<td>Evidence of Carcinogenicity.</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

Bisphenol A-epichlorohydrin polymer (25068-38-6)

| LOEC (acute) | 1 mg/l Daphnia magna |
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NOEC chronic crustacea 0.3 mg/l Daphnia magna

Persistence and Degradability Not available

Bioaccumulative Potential

Mobility in Soil Not available

Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT Not regulated for transport
In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bisphenol A-(epichlorhydrin); epoxy resin)
Hazard Class : 9
Identification Number : UN3082
Packing Group : III
Label Codes : 9
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Marine pollutant : Marine pollutant

In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin)
Packing Group : III
Identification Number : UN3082
Hazard Class : 9
Label Codes : 9
ERG Code (IATA) : 9L

In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 Hazard Classes
Delayed (chronic) health hazard
Immediate (acute) health hazard

Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomesitylene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Bisphenol A-epichlorohydrin polymer (25068-38-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Trimethylolpropane triacrylate (15625-89-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Alkyl (C12-14) glycidyl ether (68609-97-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
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**Propanol, oxybis-, dibenzoate (27138-31-4)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

**Proposition 65 – ⚠️ WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

**Quartz (14808-60-7)**
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

### Canadian Regulations

**Quartz (14808-60-7)**
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on the Canadian IDL (Ingredient Disclosure List)
- IDL Concentration 1 %

**Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)**
- Listed on the Canadian DSL (Domestic Substances List)

**Bisphenol A-epichlorohydrin polymer (25068-38-6)**
- Listed on the Canadian DSL (Domestic Substances List)

**Trimethylolpropane triacrylate (15625-89-5)**
- Listed on the Canadian DSL (Domestic Substances List)

**Alkyl (C12-14) glycidyl ether (68609-97-2)**
- Listed on the Canadian DSL (Domestic Substances List)

**Propanol, oxybis-, dibenzoate (27138-31-4)**
- Listed on the Canadian DSL (Domestic Substances List)

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

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date**: 09/19/2018

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

**GHS Full Text Phrases**:

- **H315**: Causes skin irritation
- **H317**: May cause an allergic skin reaction
- **H319**: Causes serious eye irritation
- **H361**: Suspected of damaging fertility or the unborn child
- **H402**: Harmful to aquatic life
- **H411**: Toxic to aquatic life with long lasting effects

*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.*

North America GHS US 2012 & WHMIS 2015