1. IDENTIFICATION

Product identifier

Product Name ALUMINUM CLEAR 2.1 - MED

Other means of identification

Product Code BCL-3202-6
UN/ID no. UN1263
SKU(s) BCL-3202-4, BCL-3202-6

Recommended use of the chemical and restrictions on use

Recommended Use No information available.
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
Vogel Automotive Coatings
1020 Albany Place SE
Orange City, IA 51041
Phone: 712-737-4993
Fax: 712-737-4997

Emergency telephone number
Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Emergency Overview

Danger

Hazard statements
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause respiratory irritation. May cause drowsiness or dizziness
Highly flammable liquid and vapor

Appearance No information available
Physical state Liquid
Odor No information available
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

IF IN EYES: 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
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
• May be harmful if swallowed
• May be harmful in contact with skin
• Toxic to aquatic life with long lasting effects
• Toxic to aquatic life
Unknown acute toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric Isocyanate</td>
<td>28182-81-2</td>
<td>30 - 60</td>
<td>*</td>
</tr>
<tr>
<td>Parachlorobenzotrifluoride</td>
<td>98-56-6</td>
<td>15 - 40</td>
<td>*</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>10 - 30</td>
<td>*</td>
</tr>
<tr>
<td>p-Toluenesulfonyl Isocyanate</td>
<td>4083-64-1</td>
<td>0.1 - 1</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice
Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact
Wash off immediately with plenty of water. In the case of skin irritation or allergic reactions
see a physician. Wash contaminated clothing before reuse.

**Inhalation**
Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. May cause allergic respiratory reaction.

**Ingestion**
Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

**Self-protection of the first aider**
Remove all sources of ignition.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**
Treat symptomatically. Symptoms may be delayed. May cause sensitization by skin contact. May cause sensitization by inhalation and skin contact.

---

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**
Extremely flammable.

**Hazardous combustion products**
Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

**Explosion data**
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

---

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions**
Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

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

**Methods for containment**
Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**
Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.
7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling  Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parachlorobenzotrifluoride</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>IDLH: 250 mg/m³ F</td>
</tr>
<tr>
<td>98-56-6</td>
<td></td>
<td>(vacated) TWA: 2.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>STEL: 500 ppm</td>
<td>TWA: 250 ppm</td>
<td>IDLH: 2500 ppm</td>
</tr>
<tr>
<td>67-64-1</td>
<td></td>
<td>(vacated) TWA: 1000 ppm</td>
<td>TWA: 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 750 ppm</td>
<td>TWA: 2400 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1800 mg/m³</td>
<td>(vacated) STEL: 2400 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 2400 mg/m³</td>
<td>The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) STEL: 1000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

NIOSH IDLH  Immediately Dangerous to Life or Health

Other Information  Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls  Showers
| Eyewash stations |
| Ventilation systems |

Individual protection measures, such as personal protective equipment

Eye/face protection  Tight sealing safety goggles.

Skin and body protection  Wear protective gloves and protective clothing.

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

General Hygiene Considerations  When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state  Liquid
### 10. STABILITY AND REACTIVITY

#### Reactivity
No data available

#### Chemical stability
Stable under recommended storage conditions.

#### Possibility of hazardous reactions
None under normal processing.

#### Conditions to avoid
Heat, flames and sparks.

#### Incompatible materials

#### Hazardous decomposition products
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

- **Inhalation**: May cause sensitization by inhalation.
- **Eye contact**: May cause irritation.
- **Skin Contact**: May cause irritation. May cause sensitization by skin contact.
- **Ingestion**: No data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric Isocyanate 28182-81-2</td>
<td>-</td>
<td>-</td>
<td>= 18500 mg/m³ (Rat) 1 h</td>
</tr>
<tr>
<td>Parachlorobenzotrifluoride 98-56-6</td>
<td>= 13 g/kg (Rat)</td>
<td>&gt; 2 mL/kg (Rabbit)</td>
<td>= 33 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Acetone 67-64-1</td>
<td>= 5800 mg/kg (Rat)</td>
<td>&gt; 15700 mg/kg (Rabbit)</td>
<td>= 50100 mg/m³ (Rat) 8 h</td>
</tr>
<tr>
<td>p-Toluenesulfonyl Isocyanate 4083-64-1</td>
<td>= 2234 mg/kg (Rat)</td>
<td>-</td>
<td>&gt; 640 ppm (Rat) 1 h</td>
</tr>
</tbody>
</table>

### Symptoms related to the physical, chemical and toxicological characteristics

- **Symptoms**: No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Sensitization**: May cause sensitization by inhalation and skin contact.
- **Germ cell mutagenicity**: No information available.
- **Carcinogenicity**: No information available.
- **Reproductive toxicity**: No information available.
- **STOT - single exposure**: No information available.
- **STOT - repeated exposure**: No information available.
- **Target organ effects**: Central nervous system, Eyes, Respiratory system, Skin.
- **Aspiration hazard**: No information available.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects

47.23% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parachlorobenzotrifluoride 98-56-6</td>
<td>-</td>
<td>11.5 - 15.8: 48 h Lepomis macrochirus mg/L LC50 static</td>
<td>3.68: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Acetone 67-64-1</td>
<td>-</td>
<td>4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50</td>
<td>10294 - 17704: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

### Persistence and degradability

No information available.
Bioaccumulation
No information available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parachlorobenzotrifluoride</td>
<td>3.7</td>
</tr>
<tr>
<td>98-56-6</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>-0.24</td>
</tr>
<tr>
<td>67-64-1</td>
<td></td>
</tr>
</tbody>
</table>

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Do not reuse container.

US EPA Waste Number
D001 U002

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>-</td>
<td>Included in waste stream: F039</td>
<td>-</td>
<td>U002</td>
</tr>
</tbody>
</table>

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

<table>
<thead>
<tr>
<th>UN/ID no.</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Packing Group</th>
<th>Special Provisions</th>
<th>Description</th>
<th>Emergency Response Guide Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1263</td>
<td>Paint Related Material</td>
<td>3</td>
<td>II</td>
<td>149, B52, IB2, T4, TP1, TP8, TP28</td>
<td>UN1263, Paint related material, 3, II</td>
<td>128</td>
</tr>
</tbody>
</table>

TDG

<table>
<thead>
<tr>
<th>UN/ID no.</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Packing Group</th>
<th>Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1263</td>
<td>Paint Related Material</td>
<td>3</td>
<td>II</td>
<td>UN1263, Paint related material, 3, II</td>
<td></td>
</tr>
</tbody>
</table>

MEX

<table>
<thead>
<tr>
<th>UN/ID no.</th>
<th>Proper shipping name</th>
<th>Hazard class</th>
<th>Packing Group</th>
<th>Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1263</td>
<td>Paint Related Material</td>
<td>3</td>
<td>II</td>
<td>UN1263, Paint related material, 3, II</td>
<td></td>
</tr>
</tbody>
</table>

ICAO (air)
UN/ID no.  UN1263
Proper shipping name  Paint Related Material
Hazard class  3
Packing Group  II
Special Provisions  A3, A72
Description  UN1263, Paint related material, 3, II

IATA
UN Number  UN1263
Proper shipping name  Paint Related Material
Transport hazard class(es)  3
Packing Group  II
ERG Code  3L
Special Provisions  A3, A72
Description  UN1263, Paint related material, 3, II

IMDG
UN Number  UN1263
UN proper shipping name  Paint related material
Transport hazard class(es)  3
Packing Group  II
EmS-No.  F-E, S-E
Special Provisions  163
Description  UN1263, Paint related material, 3, II

RID
UN/ID no.  UN1263
Proper shipping name  Paint Related Material
Transport hazard class(es)  3
Packing Group  II
Classification code  F1
Description  UN1263, Paint related material, 3, II

ADR
UN Number  UN1263
Proper shipping name  Paint Related Material
Transport hazard class(es)  3
Packing Group  II
Classification code  F1
Tunnel restriction code  (D/E)
Special Provisions  163, 640C, 650
Description  UN1263, Paint related material, 3, II, (D/E)
Labels

ADN
Proper shipping name  Paint Related Material
Transport hazard class(es)  3
Packing Group  II
Classification code  F1
Special Provisions  163, 640C, 650
Description  UN1263, Paint related material, 3, II
Hazard label(s)  3
Limited quantity (LQ)  5 L
Ventilation  VE01

15. REGULATORY INFORMATION

International Inventories
TSCA  Complies
DSL/NDSL  Complies
EINECS/ELINCS  Complies
ENCS  Complies
IECSC  Complies
KECL  Complies
PICCS  Complies
AICS  Complies

**Legend:**
- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- **AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Fire hazard</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parachlorobenzotrifluoride 98-56-6</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Acetone 67-64-1</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Acetone 67-64-1</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**

**EPA Pesticide Registration Number**
Not applicable

**Hazardous air pollutants (HAPS) content**
This product contains no Hazardous Air Pollutants individually at 1% by weight, or greater.

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**
NFPA  Health hazards  2  Flammability  3  Instability  0  Physical and chemical properties

HMIS  Health hazards  2 *  Flammability  3  Physical hazards  0  Personal protection  X

* = Chronic Health Hazard

**Chronic Hazard Star Legend**

Revision Date  27-Oct-2017

Revision Note
No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet