SECTION 1: Identification

1.1. Product identifier
Product name: Inobond 325

1.2. Recommended use and restrictions on use
Welding and soldering products

1.3. Supplier
Zaclon LLC
2981 Independence Road
Cleveland, OH 44115
T 800-356-7327

1.4. Emergency telephone number
Emergency number: Chemtrec 1 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
GHS-US/CAN classification
Not classified

2.2. GHS Label elements, including precautionary statements
GHS-US/CAN labeling
No labeling applicable

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity
No data available

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-CAN classification</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>50 - 100</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>(CAS-No.) 1344-09-8</td>
<td>10 - 25</td>
<td>Skin Irrit. 2, H315</td>
<td>Skin Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Potassium silicate</td>
<td>(CAS-No.) 1312-76-1</td>
<td>10 - 25</td>
<td>Acute Tox. 4 (Oral), H302</td>
<td>Acute Tox. 4 (Oral), H302</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
<td>Eye Irrit. 2A, H319</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
<td>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 after inhalation: Provide fresh air. In the event of symptoms take medical treatment.
First-aid measures after skin contact: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In the event of symptoms take medical treatment.
First-aid measures after eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
First-aid measures after ingestion: Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

Symptoms/effects after inhalation: None anticipated.
Symptoms/effects after skin contact: None anticipated.
Symptoms/effects after eye contact: None anticipated.
Symptoms/effects after ingestion: None anticipated.
### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media: Carbon dioxide, dry chemical, alcohol foam.

#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media: Full water jet.

#### 5.3. Specific hazards arising from the hazardous product

- Fire hazard: None.
- Explosion hazard: None known.

#### 5.4. Special protective equipment and precautions for fire-fighters

- **Firefighting instructions:** Heating causes rise in pressure with risk of bursting. Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.
- **Protection during firefighting:** Firefighters should wear full protective gear.

### SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes and clothes. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

#### 6.2. Methods and materials for containment and cleaning up

- **For containment:** Stop the flow of material, if this is without risk.
- **Methods for cleaning up:** Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Rinse away rest with plenty of water. Dispose according to legislation.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling: Observe the usual precautions for handling chemicals. Do not mix with other chemicals. Avoid contact with skin, eyes and clothes. Do not breathe aerosol. Use personal protection equipment.

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

- **Storage conditions:** Keep/Store only in original container. Keep container tightly closed. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Provide solvent-resistant and impermeable floor. Storage stability 12 months. Storage temperature: +5 °C - +45 °C. Keep away from food, drink and animal feedingstuffs. Do not store together with: Acids

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

- **Appropriate engineering controls:** General (mechanical) room ventilation is expected to be satisfactory for normal handling.
- **Hand protection:** Wear chemical resistant gloves to minimize skin contact.
- **Eye protection:** Eye glasses with side protection.
- **Skin and body protection:** Wear suitable working clothes.
- **Respiratory protection:** If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- **Physical state:** Liquid
- **Color:** Clear, colorless.
- **Odor:** Odorless
- **Odor threshold:** No data available
- **pH:** 11 - 12
- **Relative evaporation rate (butyl acetate=1):** No data available
### Relative evaporation rate (ether=1)
No data available

### Melting point
No data available

### Freezing point
No data available

### Boiling point
> 100 °C (>212 F)

### Flash point
No data available

### Auto-ignition temperature
No data available

### Decomposition temperature
No data available

### Flammability (solid, gas)
No data available

### Vapor pressure
No data available

### Density at 20 °C
ca. 1.38 g/cm³

### Solubility
No data available

### Viscosity, dynamic at 20 °C
ca. 250 mPas

### Log Pow
No data available

### Explosion limits
No data available

### 9.2. Other information
No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

#### Chemical stability
The product is stable at normal handling and storage conditions.

#### Possibility of hazardous reactions
Will not occur.

#### Conditions to avoid
Protect against frost.

#### Incompatible materials
Exothermic reaction with aluminum, tin, zinc and alloys of these metals generating hydrogen gas.

#### Hazardous decomposition products
None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity (oral)
Not classified

#### Acute toxicity (dermal)
Not classified

#### Acute toxicity (inhalation)
Not classified

#### Water (7732-18-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ oral rat</td>
<td>&gt; 90 ml/kg</td>
</tr>
</tbody>
</table>

#### Sodium silicate (1344-09-8)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ oral rat</td>
<td>1960 mg/kg</td>
</tr>
</tbody>
</table>

#### Potassium silicate (1312-76-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ oral rat</td>
<td>5700 mg/kg</td>
</tr>
</tbody>
</table>

#### Skin corrosion/irritation
Not classified

#### pH: 11 - 12

#### Serious eye damage/irritation
Not classified

#### pH: 11 - 12

#### Respiratory or skin sensitization
Not classified

#### Germ cell mutagenicity
Not classified

#### Carcinogenicity
Not classified

#### Reproductive toxicity
Not classified

#### Specific target organ toxicity – single exposure
Not classified

#### Specific target organ toxicity – repeated exposure
Not classified

#### Aspiration hazard
Not classified
### SECTION 12: Ecological information

#### 12.1. Toxicity

Aquatic acute: Not classified
Aquatic chronic: Not classified

<table>
<thead>
<tr>
<th>Sodium silicate (1344-09-8)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>(no bioaccumulation expected)</td>
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#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone: Not classified

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

In accordance with TDG
Not applicable

In accordance with DOT
Not applicable

### SECTION 15: Regulatory information

#### 15.1. Canada National regulations

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<thead>
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<th>Water (7732-18-5)</th>
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<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
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#### 15.2. US Federal regulations

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</table>

#### 15.3. US State regulations

No additional information available
SECTION 16: Other information

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H315</th>
<th>Causes skin irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

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.