1. Identification

1.1. Product Identifier

Product Name: PRO-BOND

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Adhesives and/or sealants.
Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party: Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1 (800) 843-0844 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)
Fax: +1 (414) 774-8075

E-mail: msds@bostik.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332
(Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
<td>1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>1</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>4</td>
</tr>
</tbody>
</table>

2.2. Label Elements

**EMERGENCY OVERVIEW**

**Danger**

Hazard statements
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
Combustible liquid

Page 1 / 10
Precautionary Statements - Prevention
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
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage
Store in a well-ventilated place. Keep cool

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

Hazards not otherwise classified (HNOC)
Not applicable

Unknown acute toxicity
23% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information
Causes mild skin irritation.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Mixture

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>40 - 70</td>
</tr>
<tr>
<td>Naphtha, petroleum, heavy alkylate</td>
<td>64741-65-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Benzene, 1,1'-methylenebis(isocyanato-)</td>
<td>26447-40-5</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Benzenesulfonyl isocyanate, 4-methyl-</td>
<td>4083-64-1</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
Remove and isolate contaminated clothing and shoes.

Eye contact
In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
**Skin contact**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician.

**Inhalation**
Move victim to fresh air. Administer oxygen if breathing is difficult. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. May cause sensitization by inhalation. If symptoms persist, call a physician.

**Ingestion**
Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or physician immediately.

**Self-protection of the first aider**
Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms**
No information available.

4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians**
May cause sensitization of susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically.

4.4. Reference to Other Sections

**Reference to other sections**
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 11: TOXICOLOGY INFORMATION

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**Section 5: FIRE-FIGHTING MEASURES**

5.1. Extinguishing media

**Suitable extinguishing media**

**Unsuitable extinguishing media**
Strong water jet.

5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical**
Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

**Explosion Data**

- Sensitivity to mechanical impact: None.
- Sensitivity to static discharge: None.

5.3. Advice for firefighters

**Special protective actions for fire-fighters**
Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Avoid contact with skin, eyes or clothing.

6.2. Environmental precautions

Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment
Stop leak if you can do it without risk. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up
Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Reference to other sections
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep out of the reach of children. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Protect from direct contact with water or excessive moisture.

Incompatible materials

7.3. Specific end use(s)

Specific Use(s)
Adhesives and/or sealants.

Other information
No information available.

7.4. References to Other Sections

Reference to other sections
Section 13: DISPOSAL CONSIDERATIONS
Section 10: STABILITY AND REACTIVITY
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines. As Limestone CAS 1317-65-3 is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>NIOSH IDLH</th>
<th>OSHA PEL</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone 1317-65-3</td>
<td>No data available</td>
<td>TWA: 10 mg/m³ total dust</td>
<td>TWA: 5 mg/m³ respirable dust</td>
<td>TWA: 10 mg/m³ STEL: 20 mg/m³</td>
</tr>
<tr>
<td>Benzene, 1,1'-methylenebis(isocyanato</td>
<td>No data available</td>
<td>Ceiling: 0.02 ppm Ceiling:</td>
<td>TWA: 0.02 ppm</td>
<td>TWA: 0.02 ppm TWA: 0.2 mg/m³ TWA: 0.005 ppm TWA: 0.051 mg/m³</td>
</tr>
<tr>
<td>26447-40-5</td>
<td></td>
<td>0.2 mg/m³ respirable fraction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering controls. Showers Eyewash stations
Ventilation systems.

Personal protective equipment [PPE]

Eye/face protection. Tight sealing safety goggles.
Skin and body protection. Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
Respiratory protection. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Paste</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>&gt; 100 °C / 212 °F</td>
<td></td>
</tr>
</tbody>
</table>

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Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

    Hazardous polymerization    Hazardous polymerization may occur.

10.4. Conditions to avoid

Keep from any possible contact with water. Protect from moisture. Extremes of temperature and direct sunlight. Keep away from heat, sparks and flames. Storage near to reactive materials.

10.5. Incompatible materials


10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Section 11: TOXICOLOGY INFORMATION**

### 11.1. Information on toxicological effects

#### Product Information

**Inhalation**

May cause sensitization by inhalation.

**Eye contact**

No data available.

**Skin contact**

May cause sensitization by skin contact.

**Ingestion**

No data available.

#### Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>&gt;5000 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Naphtha, petroleum, heavy alkylate</td>
<td>&gt; 7000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 5.04 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Benzene, 1,1’-methylenebis[isocyanato-</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>&gt; 10000 mg/kg (Rabbit)</td>
<td>= 490 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>26447-40-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzenesulfonyl isocyanate, 4-methyl-</td>
<td>2234 mg/kg (Rat)</td>
<td>-</td>
<td>&gt; 640 ppm (Rat) 1 h</td>
</tr>
<tr>
<td>4083-64-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Symptoms**

No information available.

**Skin corrosion/irritation**

No information available.

**Serious eye damage/eye irritation**

No information available.

**Irritation**

No information available.

**Corrosivity**

No information available.

**Sensitization**

May cause sensitization by inhalation and skin contact.

**Germ cell mutagenicity**

No information available.

**Reproductive toxicity**

No information available.

**Developmental Toxicity**

No information available.

**Teratogenicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Chronic Toxicity**

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Repeated or prolonged contact causes sensitization, asthma and eczemas.

**Target Organ Effects**

Eyes, Skin, Respiratory system.

**Aspiration hazard**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, 1,1’-methylenebis[isocyanato-</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26447-40-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Section 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity
SAFETY DATA SHEET

PRO-BOND
Revision Number 1

Revision date 18-Jun-2019
Supersedes Date: 18-Jun-2019

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>CE50 (72h) &gt;200mg/L Algae (Desmondesmus subspicatus)</td>
<td>CL50 (96h)&gt;10000mg/L Fish (Oncorhynchus mykiss)</td>
<td>CE50 (48h) &gt;1000 mg/L Daphnia Magna</td>
<td></td>
</tr>
<tr>
<td>1317-65-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphtha, petroleum, heavy alkylate</td>
<td>EC50: =30000mg/L (72h, Pseudokirchneriella subcapitata)</td>
<td></td>
<td>LC50: =2mg/L (48h, Mysidopsis bahia)</td>
<td></td>
</tr>
<tr>
<td>64741-65-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene, 1,1'-methylenebis(isocyanato -)</td>
<td>EC50: =3230mg/L (96h, Skeletonema costatum)</td>
<td></td>
<td>EC50: &gt;1000mg/L (24h, Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>26447-40-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available.

Other adverse effects
No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Disposal of Wastes
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Contaminated packaging
Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORT INFORMATION

Note:
The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition).
The information shown here, may not always agree with the bill of lading shipping description for the material.
49 CFR 173.150(f)(2) "The requirements in this subchapter do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant."

DOT
UN/ID No
NA1993
Proper Shipping Name
Combustible liquid, n.o.s.
Hazard class
Combustible liquid
Packing Group
III
Special Provisions
IB3, T1, TP1, 148
Description
NA1993, Combustible liquid, n.o.s.(Naphtha, petroleum, heavy alkylate), III
Emergency Response Guide Number 128

IATA Not regulated
IMDG Not regulated

Section 15: REGULATORY INFORMATION

Global Inventories

<table>
<thead>
<tr>
<th>TSCA</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
Listed - The components of this product are either listed or exempt from listing on inventory.
Not Listed - One or more components of this product are not listed on inventory.

United States of America

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
Classification is shown in section 2 of this SDS

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU
This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polychlorinated biphenyls (PCB), and Polychlorinated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet
No information available

Key Literature References and Sources for Data
No information available

Prepared By Product Safety & Regulatory Affairs
Revision date 18-Jun-2019
Revision note Not applicable.
Training Advice No information available
<table>
<thead>
<tr>
<th>Further information</th>
<th>No information available</th>
</tr>
</thead>
</table>

**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.

End of Safety Data Sheet