The following Bostik, Inc. product:

**CMP LockDown**

is a kit comprised of the following two components:

**CMP LockDown Part A**

**CMP LockDown Part B**

The Safety Data Sheets for the two components are attached after this cover sheet.

Bostik, Inc.
Product Safety and Regulatory Affairs
Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name          CMP LockDown Part A

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

Recommended use  resin.
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-us.com

1.4. Emergency telephone number

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

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

2.2. Label Elements

WARNING

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Safety Data Sheet

CMP LockDown Part A  
Revision Number  1  
Revision Date  24-Jan-2018  
Supersedes Date:  24-Jan-2018

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
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response
Specific treatment (see first aid measures on this label)
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 ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statements - Storage
Not applicable

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

Hazards Not Otherwise Classified (HNOC)
Not applicable

Unknown acute toxicity
40% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information
No information available.

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>Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW</td>
<td>25068-38-6</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Formaldehyde, polymer with (chloromethyl)oxirane and phenol</td>
<td>9003-36-5</td>
<td>Proprietary</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/Take off immediately all contaminated clothing. If medical advice is needed, have
product container or label at hand.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 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
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion
If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Self-Protection of the First Aider
First aider: Pay attention to self-protection.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms
May cause skin and eye irritation. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons.

4.3. Indication of any immediate medical attention and special treatment needed
Note to physicians
May cause sensitization by skin contact. Treat symptomatically.

4.4. Reference to Other Sections
Reference to other sections
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 11: TOXICOLOGY INFORMATION

Section 5: FIRE-FIGHTING MEASURES

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

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 toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). May cause sensitization by skin contact.

Explosion Data
Sensitivity to Mechanical Impact
None.
Sensitivity to Static Discharge
None.

5.3. Advice for firefighters
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.

Section 6: ACCIDENTAL RELEASE MEASURES
6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. 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. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

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. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse. Special precautions. Please refer also to Safety Data Sheet of Part B. For application method and dose rate, refer to the technical data sheet. Important: Do not leave mixed material in the container - curing in bulk can lead to excessive heat.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from food, drink and animal feeding stuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.


7.3. Specific end use(s)

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

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. Showers, Eyewash stations, Ventilation systems. Please refer also to Safety Data Sheet of Part B.

Personal protective equipment [PPE]

Eye/Face Protection

Wear safety glasses with side shields (or 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. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash 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>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 information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
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<td></td>
</tr>
<tr>
<td>Decomposition</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

After mixing the two components, the curing reaction starts. In bulk this reaction can be vigorous.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials


10.6. Hazardous decomposition products

None under normal use and recommended storage conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>No data available</td>
<td>&gt;2000 mg/Kg (rat)</td>
<td>-</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Irritating to skin. May cause sensitization by skin contact</td>
<td>LD50 &gt; 2000 mg/kg ( Rat ) (OECD 402)</td>
<td>-</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Severeely irritating to eyes</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No data available</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Product Information</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Safety Data Sheet

CMP LockDown Part A
Revision Number 1

Revision Date 24-Jan-2018
Supersedes Date: 24-Jan-2018

9003-36-5

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

<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>Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW 25068-38-6</td>
<td>EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009</td>
<td>1.2 mg/l 96Hr (Oncorhynchus mykiss)</td>
<td>2.7 mg/l 48hr Daphia Magna</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: TRANSPORTATION INFORMATION

Note:
The information shown here, may not always agree with the bill of lading shipping description for the material.

DOT
Not regulated

IATA

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3082</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>ERG Code</td>
<td>9L</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>A97, A158, A197</td>
</tr>
<tr>
<td>Description</td>
<td>UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III</td>
</tr>
</tbody>
</table>

IMDG

<table>
<thead>
<tr>
<th>UN Number</th>
<th>UN3082</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), Marine Pollutant</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>EmS-No</td>
<td>F-A, S-F</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>274, 335, 969</td>
</tr>
<tr>
<td>Description</td>
<td>UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III, Marine Pollutant</td>
</tr>
</tbody>
</table>

Section 15: REGULATORY INFORMATION

Global Inventories

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

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

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

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), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59
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 24-Jan-2018
Revision Note Not applicable.
Training Advice No information available
Further information 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.
Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name: CMP LockDown Part B

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

Recommended use: Curing chemical.
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-us.com

1.4. Emergency telephone number

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

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 1 Sub-category B</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements:
- Harmful if swallowed
- Harmful if inhaled
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Suspected of causing genetic defects
- May cause damage to organs through prolonged or repeated exposure
Safety Data Sheet

CMP LockDown Part B
Revision Number  1

Rev. Date 24-Jan-2018
Supersedes Date  24-Jan-2018

Precautionary Statements - Prevention
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
- Immediately call a POISON CENTER or doctor/physician
- Specific treatment (see first aid measures on this label)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Precautionary Statements - Storage
- Store locked up

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

Hazards Not Otherwise Classified (HNOC)
- Not applicable

Unknown acute toxicity
- 35% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information
- May be harmful in contact with skin.

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>isophorone diamine</td>
<td>2855-13-2</td>
<td>35 - 50</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice
Remove/Take off immediately all contaminated clothing. If medical advice is needed, have product container or label at hand.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

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
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

Ingestion
If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Self-Protection of the First Aider
First aider: Pay attention to self-protection.

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

Symptoms
Causes severe skin burns and eye damage. May cause allergic skin reaction.

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

Note to physicians
None. Treat symptomatically. May cause sensitization by skin contact.

4.4. Reference to Other Sections

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

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Ammonia. May cause sensitization by skin contact.

Explosion Data
Sensitivity to Mechanical Impact
None.
5.3. Advice for firefighters

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.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. 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. Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Prevent product from entering drains.

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. Use only in well-ventilated areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse. Special precautions. For mixing of both components:. Please refer also to Safety Data Sheet of Part A. For application method and dose rate, refer to the technical data sheet. Important: Do not leave mixed material in the container - curing in bulk can lead to excessive heat.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep from freezing. Keep out of the reach of children.

Incompatible Materials Exothermic reaction with. Acids.

7.3. Specific end use(s)
Specific Use(s)
Hardener.

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

<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>1,3-Benzenedimethanamine</td>
<td>S*</td>
<td>Ceiling: 0.1 mg/m³</td>
<td>-</td>
<td>Ceiling: 0.1 mg/m³</td>
</tr>
<tr>
<td>1477-55-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol</td>
<td>TWA: 5 ppm</td>
<td>IDLH: 250 ppm</td>
<td>TWA: 5 ppm</td>
<td>TWA: 5 ppm</td>
</tr>
<tr>
<td>108-95-2</td>
<td>S*</td>
<td>Ceiling: 15.6 ppm 15 min</td>
<td>TWA: 19 mg/m³</td>
<td>TWA: 19 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling: 60 mg/m³ 15 min</td>
<td>S*</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Argentina</th>
<th>Brazil</th>
<th>Chile</th>
<th>Venezuela</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Benzenedimethanamine</td>
<td>Ceiling: 0.1 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol</td>
<td>TWA: 5 ppm</td>
<td>TWA: 4 ppm</td>
<td>TWA: 4 ppm</td>
<td>Skin</td>
</tr>
<tr>
<td>108-95-2</td>
<td>Skin</td>
<td>TWA: 15 mg/m³ Skin</td>
<td>TWA: 15 mg/m³ Skin</td>
<td>TWA: 5 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering Controls
Showers
Eyewash stations
Ventilation systems. Provide local exhaust ventilation. Please refer also to Safety Data Sheet of Part A.

Personal protective equipment [PPE]

Eye/Face Protection
Wear safety glasses with side shields (or 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. Do not eat, drink or smoke when using this product. Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it 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

Physical State: Liquid
Color: No information available
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

After mixing the two components, the curing reaction starts. In bulk this reaction can be vigorous.

10.4. Conditions to avoid

None known if handled according to instructions.

10.5. Incompatible materials
Exothermic reaction with Acids.

10.6. Hazardous decomposition products

None under normal use and recommended storage conditions. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Ammonia. Amines.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Eye Contact</th>
<th>Skin Contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful by inhalation.</td>
<td>Corrosive to eyes.</td>
<td>The product causes burns of eyes, skin and mucous membranes. May cause sensitization by skin contact.</td>
<td>HARMFUL IF SWALLOWED.</td>
</tr>
</tbody>
</table>

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>Isophorone diamine 2855-13-2</td>
<td>= 1040 mg/kg (Rat)</td>
<td>LD50 &gt; 2000 mg/kg (Rat)</td>
<td>-</td>
</tr>
<tr>
<td>Benzyl alcohol 100-51-6</td>
<td>LD50 = 1620 mg/kg (Rat)</td>
<td>= 2 g/kg (Rabbit)</td>
<td>= 4.17 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>1,3-Benzenedimethanamine 1477-55-0</td>
<td>= 930 mg/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td>LC50 (4h) = 1.34 mg/L (Rat) OECD 403</td>
</tr>
<tr>
<td>Phenol 108-95-2</td>
<td>= 317 mg/kg (Rat) = 340 mg/kg (Rat)</td>
<td>= 630 mg/kg (Rabbit)</td>
<td>= 316 mg/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

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

Symptoms

<table>
<thead>
<tr>
<th>Skin Corrosion/Irritation</th>
<th>Serious Eye Damage/Eye Irritation</th>
<th>Irritation</th>
<th>Corrosivity</th>
<th>Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes severe burns.</td>
<td>Causes severe eye damage.</td>
<td>No information available.</td>
<td>No information available.</td>
<td>May cause sensitization by skin contact. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.</td>
</tr>
</tbody>
</table>

Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Reproductive Toxicity</th>
<th>Developmental Toxicity</th>
<th>Teratogenicity</th>
<th>STOT - Single Exposure</th>
<th>STOT - Repeated Exposure</th>
<th>Chronic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
<td>Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. May cause adverse liver effects.</td>
</tr>
</tbody>
</table>

Target Organ Effects

<table>
<thead>
<tr>
<th>Aspiration hazard</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes, Kidney, Liver, Respiratory system, Skin, Central nervous system.</td>
<td>The table below indicates whether each agency has listed any ingredient as a carcinogen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol 108-95-2</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

<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>Isophorone diamine</td>
<td>2855-13-2</td>
<td>EC50 72 h = 37 mg/L</td>
<td>LC50 96 h = 110 mg/L</td>
<td>EC50 24 h = 42 mg/L (Daphnia magna) EC50 48 h</td>
</tr>
<tr>
<td></td>
<td>(Desmodesmus subspicatus)</td>
<td></td>
<td>(Leuciscus idus semi-static)</td>
<td>14.6 - 21.5 mg/L (Daphnia magna semi-static)</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>EC 50 (72h) = 700 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Pseudokirchnerella subcapitata) OECD 201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Benzenedimethanamine</td>
<td>1477-55-0</td>
<td>EC50 (72h) = 20.3 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Pseudokirchnerella subcapitata) OECD 201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>EC50 72 h = 187 - 279 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Desmodesmus subspicatus)</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: TRANSPORTATION INFORMATION

Note: The information shown here, may not always agree with the bill of lading shipping description for the material.
DOT
- UN/ID No: UN2735
- Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Isophorone diamine)
- Hazard Class: 8
- Packing Group: III
- Reportable Quantity (RQ): (Phenol: RQ (kg)= 454.00)
- Special Provisions: IB3, T7, TP1, TP28
- Description: UN2735, Amines, liquid, corrosive, n.o.s. (Isophorone diamine), 8, III
- Emergency Response Guide Number: 153

IATA
- UN/ID No: UN2735
- Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Isophorone diamine)
- Transport hazard class(es): 8
- Packing Group: III
- ERG Code: 8L
- Special Provisions: A3, A803
- Description: UN2735, Amines, liquid, corrosive, n.o.s. (Isophorone diamine), 8, III

IMDG
- UN Number: UN2735
- Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Isophorone diamine)
- Transport hazard class(es): 8
- Packing Group: III
- EmS-No: F-A, S-B
- Special Provisions: 223, 274
- Description: UN2735, Amines, liquid, corrosive, n.o.s. (Isophorone diamine), 8, III

Section 15: REGULATORY INFORMATION

Global Inventories

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

Canada

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

WHMIS Hazard Class
- D1A - Very toxic materials
- D2A - Very toxic materials
- E - Corrosive material

United States of America

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**

- Acute Health Hazard: Yes
- Chronic Health Hazard: Yes
- Fire Hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

**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), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

**EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59**

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**

24-Jan-2018

**Revision Note**

Not applicable.

**Training Advice**

No information available

**Further information**

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.