

**MOISTURE SEAL PART A AND B**  
 Version 1

**Revision Date** 23-Dec-2015  
**Supersedes Date:** No information available

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**Product Name** MOISTURE SEAL PART A AND B  
**Pure substance/mixture** mixture

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommended use** Adhesives.  
**Uses Advised Against** No information available.

### 1.3. Details of the Supplier of the Safety Data Sheet

#### Company Name

Bostik (Shanghai) Management Co., Ltd  
 Building 1, No.968 Guanghai Road, Minhang District  
 Shanghai, China  
 Tel: 021-60763101  
 Fax: 021-60763133

#### Manufacturer

Bostik India Private Ltd  
 124/1 & 124/2A  
 Kachanayakanahalli  
 Behind Bommasandra Indl.Area  
 Off Hosur Road, Hennagara Post,  
 Anekal Taluk  
 Bangalore - 562106, Karnataka,  
 INDIA  
 Tel: 0091-80-27833520  
 Fax: 00 91-80-27831324  
 Email: Bostikinfo.India@bostik.com

Please refer to Section 16 for local affiliate addresses.

### 1.4. Emergency Telephone Number

**Emergency Telephone** 0532-8388 9090 (China only)  
**E-mail address** SDS.AP@Bostik.com

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

|                                   |                   |
|-----------------------------------|-------------------|
| Skin Corrosion/Irritation         | Category 2 (6.3A) |
| Serious Eye Damage/Eye Irritation | Category 2 (6.4)  |
| Skin sensitization                | Category 1 (6.5B) |
| Acute aquatic toxicity            | Category 3 (9.1D) |
| Chronic aquatic toxicity          | Category 3 (9.1C) |

Classification in parenthesis is applicable for New Zealand Hazard Classification

**ERMA Group** No information available

### 2.2. Label Elements



**Signal Word** WARNING

#### Hazard statements

H315 - Causes skin irritation

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H412 - Harmful to aquatic life with long lasting effects

## Precautionary Statements - Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment

## Precautionary Statements - Response

P321 - Specific treatment (see .? on this label)

### Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P362 - Take off contaminated clothing and wash before reuse  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

### Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention

## Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## 2.3. Other Hazards

## 2.4. Additional Information

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical Name                          | CAS No     | Weight-% |
|--|------------|----------|
| Bisphenol-A-Epichlorhydrin Epoxy resin | 25068-38-6 | 10 - 20  |
| Triethylenetetramine                   | 112-24-3   | 1 - 5    |
| Isopropyl alcohol                      | 67-63-0    | 1 - 5    |

\*\*\* Any remaining ingredients are not hazardous

## Section 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

|   |  |
|---|--|
| <b>General Advice</b>                     | If symptoms persist, call a physician.   |
| <b>Inhalation</b>                         | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.   |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a physician.                                     |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area. If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>                          | Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If symptoms persist, call a physician.                                 |
| <b>Self-protection of the First Aider</b> | Use personal protective equipment as required.   |

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

Symptoms None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians 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 Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

#### 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.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

#### 5.3. Advice for Firefighters

Special Protective Equipment for Fire-fighters Wear self-contained breathing apparatus and protective suit.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Evacuate personnel to safe areas. Use personal protection recommended in Section 8.

#### 6.2. Environmental Precautions

Environmental Precautions Keep people away from and upwind of spill/leak.

#### 6.3. Methods and Material for Containment and Cleaning up

Methods for Containment Stop leak if you can do it without risk.

Methods for Cleaning 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. Dam up.

#### 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 Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Do not reuse container.

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

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

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing.

**Incompatible Materials** No information available

## 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 Limits

| Chemical Name                | ACGIH TLV                     | NIOSH IDLH  | OSHA PEL                                   | European Union |
|------------------------------|-------------------------------|---|--|----------------|
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup> | -              |

| Chemical Name                | Australia   | China   | Japan   | Korea  | New Zealand   |
|------------------------------|---|---|---|--|---|
| Isopropyl alcohol<br>67-63-0 | 400 ppm<br>983 mg/m <sup>3</sup><br>500 ppm STEL<br>1230 mg/m <sup>3</sup> STEL | TWA: 350 mg/m <sup>3</sup><br>STEL: 700 mg/m <sup>3</sup> | Ceiling: 400 ppm<br>Ceiling: 980 mg/m <sup>3</sup><br>ISHL/ACL: 200 ppm | STEL: 400 ppm<br>STEL: 980 mg/m <sup>3</sup><br>TWA: 200 ppm<br>TWA: 480 mg/m <sup>3</sup> | TWA: 400 ppm<br>TWA: 983 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1230 mg/m <sup>3</sup> |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**Other Information** No information available

### 8.2. Exposure Controls

**Engineering Controls** Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Use explosion-proof ventilating equipment.

#### **Personal Protective Equipment (PPE)**

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.

**Hand 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** No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.

**General Hygiene Considerations** Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

**Environmental Exposure Controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

## 9.1. Information on Basic Physical and Chemical Properties

|                |                          |
|----------------|--------------------------|
| Appearance     | Very viscous Liquid      |
| Color          | White                    |
| Odor           | Ammonia                  |
| Odor Threshold | No information available |

| <u>Property</u>              | <u>Values</u>            | <u>Remarks • Method</u> |
|------------------------------|--------------------------|-------------------------|
| pH                           | No information available |                         |
| Melting Point/Freezing Point | No information available |                         |
| Boiling Point                | No information available |                         |
| Flash Point                  | No information available |                         |
| Evaporation Rate             | No information available |                         |
| Flammability (solid, gas)    | No information available |                         |
| Flammability Limit in Air    |                          |                         |
| Upper Flammability Limit     | No information available |                         |
| Lower Flammability Limit     | No information available |                         |
| Vapor Pressure               | No information available |                         |
| Vapor Density                | No information available |                         |
| Specific Gravity             | No information available |                         |
| Water Solubility             | No information available |                         |
| Solubility in Other Solvents | No information available |                         |
| Partition Coefficient        | No information available |                         |
| Autoignition Temperature     | No information available |                         |
| Decomposition Temperature    | No information available |                         |
| Kinematic Viscosity          | No information available |                         |
| Dynamic Viscosity            | No information available |                         |
| Explosive Properties         | No information available |                         |
| Oxidizing Properties         | No information available |                         |

## 9.2. Other Information

|                     |                          |
|---------------------|--------------------------|
| Softening Point     | No information available |
| Molecular Weight    | No information available |
| Solvent Content (%) | No information available |
| Solid Content (%)   | No information available |
| Density             | No information available |
| Bulk Density        | No information available |

## **Section 10: STABILITY AND REACTIVITY**

### 10.1. Reactivity

Reactivity None under normal use conditions.

### 10.2. Chemical Stability

Stability Stable under normal conditions

### 10.3. Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization None known.

### 10.4. Conditions to Avoid

Conditions to Avoid Extremes of temperature and direct sunlight. Keep from freezing.

### 10.5. Incompatible Materials

Incompatible Materials No information available.

### 10.6. Hazardous Decomposition Products

Hazardous Decomposition Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

## Products

### Section 11: TOXICOLOGY INFORMATION

#### 11.1. Information on Toxicological Effects

##### Acute Toxicity

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known or supplied information |
| <b>Inhalation</b>          | No Data Available.   |
| <b>Eye contact</b>         | No Data Available.   |
| <b>Skin Contact</b>        | No Data Available.   |
| <b>Ingestion</b>           | No Data Available.   |

| Chemical Name  | Oral LD50             | Dermal LD50             | Inhalation LC50                       |
|--|-----------------------|-------------------------|---------------------------------------|
| Bisphenol-A-Epichlorhydrin Epoxy resin<br>25068-38-6 | = 11400 mg/kg ( Rat ) | -                       | -                                     |
| Triethylenetetramine<br>112-24-3                     | = 2500 mg/kg ( Rat )  | = 550 mg/kg ( Rabbit )  | -                                     |
| Isopropyl alcohol<br>67-63-0                         | >5000 mg/Kg           | = 4059 mg/kg ( Rabbit ) | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

|  |                           |
|--|---------------------------|
| <b>Skin Corrosion/Irritation</b>         | No information available. |
| <b>Serious Eye Damage/Eye Irritation</b> | No information available. |
| <b>Sensitization</b>                     | No information available. |
| <b>Germ Cell Mutagenicity</b>            | No information available. |
| <b>Reproductive Toxicity</b>             | No information available. |
| <b>STOT - Single Exposure</b>            | No information available. |
| <b>STOT - Repeated Exposure</b>          | No information available. |
| <b>Target Organ Effects</b>              | No information available. |
| <b>Aspiration Hazard</b>                 | No information available. |
| <b>Carcinogenicity</b>                   | No information available. |

| Chemical Name     | IARC    | China | Japan |
|-------------------|---------|-------|-------|
| Isopropyl alcohol | Group 3 | -     | -     |

### Section 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

##### Ecotoxicity

##### Product Information

Harmful to aquatic life with long lasting effects.

##### Component Information

Data obtained on the component(s) include

| Chemical Name                    | Algae/Aquatic Plants   | Fish  | Crustacea                               |
|----------------------------------|--|---|---|
| Triethylenetetramine<br>112-24-3 | EC50 72 h = 2.5 mg/L<br>(Desmodesmus subspicatus)<br>EC50 72 h = 20 mg/L<br>(Pseudokirchneriella subcapitata)<br>EC50 96 h = 3.7 mg/L<br>(Pseudokirchneriella subcapitata) | LC50 96 h = 570 mg/L (Poecilia reticulata semi-static) LC50 96 h = 495 mg/L (Pimephales promelas )  | EC50 48 h = 31.1 mg/L (Daphnia magna )  |
| Isopropyl alcohol<br>67-63-0     | EC50 96 h > 1000 mg/L<br>(Desmodesmus subspicatus)<br>EC50 72 h > 1000 mg/L<br>(Desmodesmus subspicatus)   | LC50 96 h = 9640 mg/L<br>(Pimephales promelas<br>flow-through) LC50 96 h = 11130<br>mg/L (Pimephales promelas static)<br>LC50 96 h > 1400000 µg/L<br>(Lepomis macrochirus ) | EC50 48 h = 13299 mg/L (Daphnia magna ) |

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

## 12.2. Persistence and Degradability

No information available.

## 12.3. Bioaccumulative Potential

No information available.

## 12.4. Mobility in Soil

No information available.

## 12.5. Results of PBT and vPvB Assessment

No information available.

## 12.6. Other Adverse Effects

No information available.

### **Endocrine Disruptor Information**

| Chemical Name                          | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Endocrine disrupting potential |
|--|--|--|--------------------------------|
| Bisphenol-A-Epichlorhydrin Epoxy resin | Group III Chemical                       | -  | -                              |
| Triethylenetetramine                   | Group III Chemical                       | -  | -                              |

## **Section 13: DISPOSAL CONSIDERATIONS**

### 13.1. Waste Treatment Methods

**Waste from Residues/Unused Products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **Section 14: TRANSPORT INFORMATION**

IMDG Not regulated

IATA Not regulated

ADR Not regulated

## **Section 15: REGULATORY INFORMATION**

### National Regulations

#### China

This product contains the following substance(s)

| Chemical Name                    | Weight-% | China - Catalog of Hazardous Chemicals - Hazardous Chemicals |
|----------------------------------|----------|--|
| Triethylenetetramine<br>112-24-3 | 1 - 5    | X  |
| Isopropyl alcohol<br>67-63-0     | 1 - 5    | X  |

Japan

# Safety Data Sheet

MOISTURE SEAL PART A AND B  
Version 1

Revision Date 23-Dec-2015  
Supersedes Date: No information available

This product contains the following Class 1 and Class 2 Designated Chemical Substances per Japan PRTR Law.

| Chemical Name                    | Weight-% | Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances |
|----------------------------------|----------|---|
| Triethylenetetramine<br>112-24-3 | 1 - 5    | X   |

## Korea

### **K-REACH/chemical control act(CCA)**

This product contains the following substance(s)

| Chemical Name  | Weight-% | Korea - MOE - K-REACH/CCA - Toxic Substances | Korea - MOE - K-REACH/CCA - Prohibited Substances | Korea - MOE - K-REACH/CCA - Restricted Substances | Korea - MOE - Chemicals Control Act (CCA) - Accident Precaution Chemicals | Korea - MOE - K-REACH - Existing Substances Subject to Registration |
|--|----------|--|---|---|---|---|
| Bisphenol-A-Epichlorhydrin Epoxy resin<br>25068-38-6 | 10 - 20  |  |   |   |   | X   |

## **Legend**

X - Present

## International Regulations

### 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  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **Section 16: OTHER INFORMATION**

### Local Contacts

Bostik Korea, Ltd.  
#801, 8F Mtek IT Tower, 344 pangyo-ro  
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Bostik-Nitta Co, Ltd  
2-22,Futamata  
Yao, Osaka  
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Tel: 81-72-948-8286  
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Bostik India Private Ltd  
124/1 & 124/2A  
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# Safety Data Sheet

**MOISTURE SEAL PART A AND B**  
**Version 1**

**Revision Date** 23-Dec-2015  
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Bostik New Zealand Limited  
19 Eastern Hutt Road Wingate,  
Lower Hutt, New Zealand  
Tel: 04-567 5119  
Fax: 04-567 5412  
24-hr Emergency: 0800 243 622

Jiangsu Bositk Adhesive Co.,Ltd  
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Enconomic Development Zone  
Jiangsu Province 215536  
Tel: 0086-512-52266000  
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Bostik Findley (China) Adhesive Ltd  
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Fax: 020-8297 5277

## 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** 23-Dec-2015

**Revision Note** Not applicable.

**Training Advice** No information available

**Further information** No information available

## Disclaimer

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**End of Safety Data Sheet**