

| WHMIS                                                                             | PPE                                                                                                                                                                 | Transport Symbol |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|  |   |                  |

Revision Date 15-April-2016

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Monoglass Bonding Adhesive - Part A

**Product Type** Water Based Adhesive

**Manufactured by:** Monoglass Incorporated  
1200 West 73rd Ave., #922  
Vancouver, British Columbia  
Canada V6P 6G5

**Emergency Contact Number** 1-604-261-7712 / 1-888-777-2966

**Telephone for Information** : 1 (604) 261- 7712 / 1-888-777-2966

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

May cause skin and eye irritation

**Appearance** White

**Physical State** Liquid

**Odor** Mild

**OSHA Regulatory Status** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Potential Health Effects

#### Principle Routes of Exposure

Eye contact, Skin contact, Inhalation, Ingestion.

#### Acute Toxicity

**Eyes**

May cause slight irritation.

**Skin**

May cause irritation.

**Inhalation**

May cause irritation.

**Ingestion**

Ingestion may cause stomach discomfort.

#### Chronic Effects

#### Chronic Toxicity

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

#### Aggravated Medical Conditions

None known

#### Environmental Hazard

See Section 12 for additional Ecological Information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any ingredients considered hazardous by OSHA.

### 4. FIRST AID MEASURES

|                           |                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.                 |
| <b>Skin Contact</b>       | Wash skin with soap and water. Get medical attention if irritation develops and persists.                                                                          |
| <b>Inhalation</b>         | None under normal use. Move to fresh air.                                                                                                                          |
| <b>Ingestion</b>          | Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention. |
| <b>Notes to Physician</b> | Treat symptomatically                                                                                                                                              |

### 5. FIRE-FIGHTING MEASURES

|                                      |                                                                     |
|--------------------------------------|---------------------------------------------------------------------|
| <b>Flammable Properties</b>          | Not flammable                                                       |
| <b>Suitable Extinguishing Media</b>  | Water spray. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Foam. |
| <b>Hazardous Combustion Products</b> | Carbon oxides                                                       |

#### 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

|             |                        |                       |                    |                                          |
|-------------|------------------------|-----------------------|--------------------|------------------------------------------|
| <b>NFPA</b> | <b>Health Hazard</b> 1 | <b>Flammability</b> 0 | <b>Stability</b> 0 | <b>Physical and Chemical Hazards</b> N/A |
|-------------|------------------------|-----------------------|--------------------|------------------------------------------|

### 6. ACCIDENTAL RELEASE MEASURES

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>    | Wear protective gloves/clothing and eye/face protection                                                                                   |
| <b>Methods for Containment</b> | Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dike to collect large liquid spills. |
| <b>Methods for Cleaning Up</b> | Pick up and transfer to properly labeled containers                                                                                       |

### 7. HANDLING AND STORAGE

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Handle in accordance with good industrial hygiene and safety practice                                                     |
| <b>Storage</b>  | Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Keep cool and protect from sunlight. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                 |                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Guidelines</b>      | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| <b>Engineering Measures</b>     | Showers<br>Eyewash stations<br>Ventilation systems                                                                                            |
| <b>Eye/Face Protection</b>      | Eye protection                                                                                                                                |
| <b>Skin and Body Protection</b> | Wear protective gloves/clothing                                                                                                               |
| <b>Respiratory Protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved organic vapour respiratory protection should be worn        |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice                                                                         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |                   |                                   |                |
|----------------------------|-------------------|-----------------------------------|----------------|
| <b>Appearance</b>          | White             | <b>Physical State</b>             | Liquid         |
| <b>Odor</b>                | Mild              | <b>pH</b>                         | 4.0 - 5.0      |
| <b>Flash Point</b>         | Not applicable    | <b>Autoignition Temperature</b>   | Not applicable |
| <b>Boiling Point/Range</b> | 100 °C / 212 °F   | <b>Melting Point/Range</b>        | Not applicable |
| <b>Freezing point</b>      | N.A. 0 °C / 32 °F | <b>Flammability Limits in Air</b> | Not applicable |
| <b>Explosion Limits</b>    | Not applicable    |                                   |                |
| <b>Specific Gravity</b>    | 1.08              | <b>VOC Content</b>                | <15 g / L      |
| <b>Viscosity</b>           | 6,000 - 7,000 cps |                                   |                |

## 10. STABILITY AND REACTIVITY

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| <b>Stability</b>                        | Stable under recommended storage conditions                 |
| <b>Incompatible Products</b>            | Strong oxidizing agents.                                    |
| <b>Conditions to Avoid</b>              | Do not freeze. Extremes of temperature and direct sunlight. |
| <b>Hazardous Decomposition Products</b> | Carbon oxides.                                              |
| <b>Hazardous Reactions</b>              | Hazardous polymerization does not occur                     |

## 11. TOXICOLOGICAL INFORMATION

### Chronic Toxicity

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known or supplied information |
| <b>Irritation</b>          | Repeated or prolonged exposure may cause irritation of eyes and skin                     |

### Chronic Toxicity

|                         |                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Chronic Toxicity</b> | Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------|

**Carcinogenicity** Contains no ingredient listed as a carcinogen

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of contents/container in accordance with local regulation

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

|              |                 |
|--------------|-----------------|
| <b>TSCA</b>  | Complies        |
| <b>DSL</b>   | Complies        |
| <b>ENCS</b>  | Does not Comply |
| <b>IECSC</b> | Does not Comply |
| <b>KECL</b>  | Does not Comply |
| <b>PICCS</b> | Does not Comply |
| <b>AICS</b>  | Complies        |

### U.S. Federal Regulations

#### **SARA 313**

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

#### **SARA 311/312 Hazard Categories**

|                              |    |
|------------------------------|----|
| <b>Acute Health Hazard</b>   | No |
| <b>Chronic Health Hazard</b> | No |
| <b>Fire Hazard</b>           | No |

---

|                                   |    |
|-----------------------------------|----|
| Sudden Release of Pressure Hazard | No |
|-----------------------------------|----|

|                 |    |
|-----------------|----|
| Reactive Hazard | No |
|-----------------|----|

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

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

**WHMIS Hazard Class**

Non-controlled



## 16. OTHER INFORMATION

**Prepared By**

Verified by Quality Control Department

**Revision Date**

15-Jan-2016

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**

| WHMIS                                                                             | PPE                                                                                                                                                                 | Transport Symbol |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|  |   |                  |

Revision Date 11-May-2016

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                                  |                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------|
| <b>Product Name</b>              | <b>Monoglass Bonding Adhesive - Part B (small jug within Part A Pail)</b>                    |
| <b>Product Type</b>              | Acid Catalyst.                                                                               |
| <b>Manufactured by:</b>          | Monoglass Incorporated<br>1200 West 73rd Avenue<br>Suite 922<br>Vancouver, BC Canada V6P 6G5 |
| <b>Emergency Contact Number</b>  | 1-604-261-7712 / 1-888-777-2966                                                              |
| <b>Telephone for Information</b> | 1-604-261-7712                                                                               |

## 2. HAZARDS IDENTIFICATION

| <b>Emergency Overview</b>         |                              |                  |
|-----------------------------------|------------------------------|------------------|
| May cause skin and eye irritation |                              |                  |
| <b>Appearance</b> Translucent     | <b>Physical State</b> Liquid | <b>Odor</b> Mild |

**OSHA Regulatory Status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential Health Effects

**Principle Routes of Exposure** Eye contact, Skin contact, Inhalation, Ingestion.

### **Acute Toxicity**

**Eyes**

May cause slight irritation.

**Skin**

May cause irritation.

**Inhalation**

May cause irritation.

**Ingestion**

Ingestion may cause stomach discomfort.

### **Chronic Effects**

### **Chronic Toxicity**

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

### **Aggravated Medical Conditions**

None known

### **Environmental Hazard**

See Section 12 for additional Ecological Information

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Components         | CAS-No    | Weight % |
|--------------------|-----------|----------|
| Ammonium phosphate | 7722-76-1 | 20       |

**4. FIRST AID MEASURES**

|                           |                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.                 |
| <b>Skin Contact</b>       | Wash skin with soap and water. Get medical attention if irritation develops and persists.                                                                          |
| <b>Inhalation</b>         | None under normal use. Move to fresh air.                                                                                                                          |
| <b>Ingestion</b>          | Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention. |
| <b>Notes to Physician</b> | Treat symptomatically                                                                                                                                              |

**5. FIRE-FIGHTING MEASURES**

|                                      |                                                                     |
|--------------------------------------|---------------------------------------------------------------------|
| <b>Flammable Properties</b>          | Not flammable                                                       |
| <b>Suitable Extinguishing Media</b>  | Water spray. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Foam. |
| <b>Hazardous Combustion Products</b> | Carbon oxides                                                       |

**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

|             |                        |                       |                    |                                          |
|-------------|------------------------|-----------------------|--------------------|------------------------------------------|
| <b>NFPA</b> | <b>Health Hazard</b> 1 | <b>Flammability</b> 0 | <b>Stability</b> 0 | <b>Physical and Chemical Hazards</b> N/A |
|-------------|------------------------|-----------------------|--------------------|------------------------------------------|

**6. ACCIDENTAL RELEASE MEASURES**

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>    | Wear protective gloves/clothing and eye/face protection                                                                                   |
| <b>Methods for Containment</b> | Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dike to collect large liquid spills. |
| <b>Methods for Cleaning Up</b> | Pick up and transfer to properly labeled containers                                                                                       |

**7. HANDLING AND STORAGE**

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Handle in accordance with good industrial hygiene and safety practice                                                     |
| <b>Storage</b>  | Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Keep cool and protect from sunlight. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                 |                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Guidelines</b>      | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| <b>Engineering Measures</b>     | Showers<br>Eyewash stations<br>Ventilation systems                                                                                            |
| <b>Eye/Face Protection</b>      | Eye protection                                                                                                                                |
| <b>Skin and Body Protection</b> | Wear protective gloves/clothing                                                                                                               |
| <b>Respiratory Protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved organic vapour respiratory protection should be worn        |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice                                                                         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |                   |                                   |                |
|----------------------------|-------------------|-----------------------------------|----------------|
| <b>Appearance</b>          | Translucent       | <b>Physical State</b>             | Liquid         |
| <b>Odor</b>                | Mild              | <b>pH</b>                         | 4.4 - 4.9      |
| <b>Flash Point</b>         | Not applicable    | <b>Autoignition Temperature</b>   | Not applicable |
| <b>Boiling Point/Range</b> | 100 °C / 212 °F   | <b>Melting Point/Range</b>        | Not applicable |
| <b>Freezing point</b>      | N.A. 0 °C / 32 °F | <b>Flammability Limits in Air</b> | Not applicable |
| <b>Explosion Limits</b>    | Not applicable    |                                   |                |
| <b>Specific Gravity</b>    | 1.10              | <b>VOC Content</b>                | 0 g / L        |
| <b>Viscosity</b>           | (Water)           |                                   |                |

## 10. STABILITY AND REACTIVITY

|                                         |                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Stability</b>                        | Stable under recommended storage conditions                                          |
| <b>Incompatible Products</b>            | Strong oxidizing agents. Alkaline. Metals. Acids. Strong bases. Sodium hypochlorite. |
| <b>Conditions to Avoid</b>              | Do not freeze. Extremes of temperature and direct sunlight.                          |
| <b>Hazardous Decomposition Products</b> | Carbon oxides.                                                                       |
| <b>Hazardous Reactions</b>              | Hazardous polymerization does not occur                                              |

## 11. TOXICOLOGICAL INFORMATION

### Chronic Toxicity

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known or supplied information |
| <b>Irritation</b>          | Repeated or prolonged exposure may cause irritation of eyes and skin                     |

| Components         | LD50 Oral          | LD50 Dermal           | LC50 Inhalation |
|--------------------|--------------------|-----------------------|-----------------|
| Ammonium phosphate | 5750 mg/kg ( Rat ) | 7940 mg/kg ( Rabbit ) |                 |

### Chronic Toxicity



|                         |                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Chronic Toxicity</b> | Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. |
| <b>Carcinogenicity</b>  | Contains no ingredient listed as a carcinogen                                                                            |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated

## 13. DISPOSAL CONSIDERATIONS

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| <b>Waste Disposal Method</b> | Dispose of contents/container in accordance with local regulation |
|------------------------------|-------------------------------------------------------------------|

## 14. TRANSPORT INFORMATION

|                        |               |
|------------------------|---------------|
| <b><u>DOT</u></b>      | Not regulated |
| <b><u>TDG</u></b>      | Not regulated |
| <b><u>MEX</u></b>      | Not regulated |
| <b><u>IATA</u></b>     | Not regulated |
| <b><u>IMDG/IMO</u></b> | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|              |                 |
|--------------|-----------------|
| <b>TSCA</b>  | Complies        |
| <b>DSL</b>   | Complies        |
| <b>ENCS</b>  | Does not Comply |
| <b>IECSC</b> | Does not Comply |
| <b>KECL</b>  | Does not Comply |
| <b>PICCS</b> | Does not Comply |
| <b>AICS</b>  | Complies        |

### U.S. Federal Regulations

#### **SARA 313**

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

| Components         | CAS-No    | Weight % | SARA 313 - Threshold Values % |
|--------------------|-----------|----------|-------------------------------|
| Ammonium phosphate | 7722-76-1 | 20       | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute Health Hazard               | No |
| Chronic Health Hazard             | No |
| Fire Hazard                       | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard                   | No |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Non-controlled

**16. OTHER INFORMATION****Prepared By**

Verified by Quality Control Department

**Revision Date**

11-May-2016

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**