




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

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Inhalation	None under normal use. Move to fresh air.
Ingestion	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.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Suitable Extinguishing Media	Water spray. Dry chemical. Carbon dioxide (CO ₂). Foam.
Hazardous Combustion Products	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

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
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6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

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

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	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

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 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

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

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause skin and eye irritation

Appearance Translucent

Physical State Liquid

Odor 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

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Inhalation	None under normal use. Move to fresh air.
Ingestion	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.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Suitable Extinguishing Media	Water spray. Dry chemical. Carbon dioxide (CO ₂). Foam.
Hazardous Combustion Products	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

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
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6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Engineering Measures Showers
Eyewash stations
Ventilation systems

Eye/Face Protection Eye protection

Skin and Body Protection Wear protective gloves/clothing

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved organic vapour respiratory protection should be worn

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products Strong oxidizing agents. Alkaline. Metals. Acids. Strong bases. Sodium hypochlorite.

Conditions to Avoid Do not freeze. Extremes of temperature and direct sunlight.

Hazardous Decomposition Products Carbon oxides.

Hazardous Reactions Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Chronic Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Irritation 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

Chronic Toxicity 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

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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

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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

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End of SDS