

Safety Data Sheet



Atom Adhesives
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AA-DUCT 902NS

1. PRODUCT AND COMPANY IDENTIFICATION.

PRODUCT NAME: AA-DUCT 902NS RESIN
MANUFACTURER: Atom Adhesives
ADDRESS: 1 Acorn St Entry #1, Providence, RI 02903
www.AtomAdhesives.com
EMERGENCY PHONE: 888-522-6742
CHEMTREC PHONE: 800-424-9300
FAX PHONE: 877-522-6742
CHEMICAL NAME: Epoxy Resin
PREPARED BY: Atom Adhesives

2. HAZARDS IDENTIFICATION.

EMERGENCY OVERVIEW	
WARNING:	CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

PICTOGRAM(S)	
	H315: Cause skin irritation H317: May cause an allergic skin reaction H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

- P102: Keep out of reach of children.
- P261: Avoid breathing fumes, mist, and vapors.
- P280: Wear protective gloves and eye protection.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P264: Wash hands thoroughly after handling.
- P273: Avoid release to the environment.

Response:

- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do and continue rinsing.
- P337 + P313: If eye irritation persists: Get medical advice or attention.
- P302 + P352: IF ON SKIN: Wash with plenty of water.
- P333 + P313: If skin irritation or rash occurs: Get medical advice or attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse.

Disposal:

- P501: Dispose of contents in accordance to local, regional, and international regulations.

3.COMPOSITION / INFORMATION ON INGREDIENTS.

Composition/Information on Ingredients	CAS Number	Weight% *
Epoxy Resin	Proprietary	10-30
Silver	7440-22-4	60-80
2,3-epoxypropyl o-tolyl ether	2210-79-9	1-5

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES.

Extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products: Carbon dioxide, Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES.

Personal Protection: Use personal protection recommended in Section 8.

Precautions for Response: Avoid breathing the fumes, mist, and vapors.

Environmental Precautions: Avoid releasing to the environment. Prevent spill from entering drains and waterways. Do not flush to sewer.

Containment Methods: Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).

Cleaning Methods: Collect the liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe off residues with paper towels and place the used towels in the waste container. Wash the spill area with soap and water to remove the last traces of residue.

Disposal Methods: Dispose of spill waste according to Section 13.

7. HANDLING AND STORAGE.

Prevention: Keep out of reach of children. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Avoid breathing fumes, mist, and vapors. Avoid release to the environment.

Handling: Wear protective gloves and eye protection. Wash hands thoroughly after handling. Collect spillage.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.
Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Composition/Information on Ingredients	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epoxy Resin	None	None	None	None
Silver	None	None	None	None
2,3-epoxypropyl o-tolyl ether	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection: Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection: For likely contacts, use of protective butyl rubber or other chemically resistant gloves. Use of impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste

Color: Silver

Odor: Slight

Specific gravity: 2.94 g/cm³

Vapor density: Not applicable

Flash point: 251 °C (484 °F) (ASTM D 93)

Auto ignition temperature: Not available.

Flammability: Not Flammable.

Solubility in water: Insoluble

Viscosity: Not available.

10. STABILITY AND REACTIVITY.

Stability: Stable under normal conditions of storage and use.
Hazardous reactions: None under normal processing.
Hazardous decomposition products: Oxides of carbon, Irritating vapors.
Incompatible materials: Strong acids, alkalis and oxidizing agents.
Reactivity: Not available.
Conditions to avoid: High temperatures, Store away from incompatible materials, Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation.
Skin contact: Causes skin irritation, May cause allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: May cause gastrointestinal tract irritation if swallowed.

12. ECOLOGICAL INFORMATION.

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION.

Transportation of Dangerous Goods - Ground

Proper shipping name: Not Regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not Regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not Regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION.

United States Regulatory Information
TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
Canada Regulatory Information
CEPA DSL/NDSL Status: All components are listed on or are exempt.

16. OTHER INFORMATION

DISCLAIMER: The data contained herein is believed to be reliable. However, Atom Adhesives doesn't assume responsibility for any results obtained by persons over whose methods Atom Adhesives has no control. It is the user's responsibility to determine the suitability of Atom Adhesives products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the property and person against any hazards that may be involved in the handling and use of any Atom Adhesives' products. Atom Adhesives disclaims all warranties, or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Atom Adhesives' products. Atom Adhesives further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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AA-DUCT 902NS

1. PRODUCT AND COMPANY IDENTIFICATION.

PRODUCT NAME:	AA-DUCT 902NS HARDENER
MANUFACTURER:	Atom Adhesives
ADDRESS:	1 Acorn St Entry #1, Providence, RI 02903 www.AtomAdhesives.com
EMERGENCY PHONE:	888-522-6742
CHEMTREC PHONE:	800-424-9300
FAX PHONE:	877-522-6742
CHEMICAL NAME:	Epoxy Hardener
PREPARED BY:	Atom Adhesives

2. HAZARDS IDENTIFICATION.

EMERGENCY OVERVIEW	
WARNING:	CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

PICTOGRAM(S)	
	H302 + H312: Harmful if swallowed or in contact with skin H319: Causes serious eye irritation H315: Cause skin irritation H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction H319: Causes serious eye irritation

Precautionary Statements:

Prevention:

- P102: Keep out of reach of children.
- P261: Avoid breathing fumes, mist, and vapors.
- P280: Wear protective gloves and eye protection.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P264: Wash hands thoroughly after handling.
- P273: Avoid release to the environment.

Response:

- 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 or attention.
- P302 + P352: IF ON SKIN: Wash with plenty of water.
- P333 + P313: If skin irritation or rash occurs: Get medical advice or attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse.

Disposal:

- P501: Dispose of contents in accordance to local, regional, and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Composition/Information on Ingredients	CAS Number	Weight% *
Aliphatic Amine	Proprietary	10-20
C18 Fatty acid dimer, tall oil fatty acid	68082-29-1	80-90
Silica, amorphous, fumed, crystal-free	112945-52-5	5-10

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES.

Extinguishing media:	carbon dioxide, foam, dry powder.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products:	Carbon dioxide, Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES.

Personal Protection:	Wear protective gloves and goggles. Wear suitable protective clothing.
Precautions for Response:	Avoid breathing the fumes, mist, and vapors.
Environmental Precautions:	Avoid releasing to the environment. Prevent spill from entering drains and waterways. Do not flush to sewer.
Containment Methods:	Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).
Cleaning Methods:	Spills should be contained and placed in suitable containers for disposal. If solid: Contain and collect mechanically and dispose of in accordance with local regulations. If liquid: Pick up with inert absorbent material (e.g. sand, earth etc.).
Disposal Methods:	Dispose of spill waste according to Section 13.

7. HANDLING AND STORAGE.

Prevention:	Ensure good ventilation at the workplace. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Avoid breathing fumes, mist, and vapors. Avoid release to the environment.
Handling:	Wear protective gloves and eye protection. Wash hands thoroughly after handling. Collect spillage.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Respiratory protection:	Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.
Skin protection:	For likely contacts, use of protective butyl rubber or other chemically resistant gloves. Use of impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste.
Color:	amber.
Odor:	Amine.
Specific gravity:	0.95 g/cm ³
Vapor density:	Not applicable.
Flash point:	> 118 °C (244.4 °F) (ASTM D 4206).
Auto ignition temperature:	Not available.
Flammability:	Not available.
Solubility in water:	Not available.
Viscosity:	Not available.

10. STABILITY AND REACTIVITY.

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon, Irritating vapors.
Incompatible materials:	Strong acids, alkalis and oxidizing agents.
Reactivity:	Not available.

Conditions to avoid: High temperatures, Store away from incompatible materials, Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

- Inhalation:** May cause respiratory tract irritation.
- Skin contact:** Causes skin irritation, May cause allergic skin reaction.
- Eye contact:** Causes serious eye irritation.
- Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Composition/Information on Ingredients	Oral LD50	Dermal LD50
Aliphatic Amine	> 300 mg/kg	>1000 mg/kg
C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer	NA	NA
Silica, amorphous, fumed, crystal-free	NA	NA

12. ECOLOGICAL INFORMATION.

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION.

Transportation of Dangerous Goods - Ground

- Proper shipping name:** Not Regulated
- Hazard class or division:** None
- Identification number:** None
- Packing group:** None

International Air Transportation (ICAO/IATA)

- Proper shipping name:** Not Regulated
- Hazard class or division:** None
- Identification number:** None
- Packing group:** None

Water Transportation (IMO/IMDG)

- Proper shipping name:** Not Regulated
- Hazard class or division:** None
- Identification number:** None
- Packing group:** None

15. REGULATORY INFORMATION.

United States Regulatory Information
TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

- TSCA 12(b) -
- TSCA 5(a)2 -
- TSCA 5(a)2 -
- TSCA 5(e) -

Chemical export notification: None required.
Final significant new use rules: Not listed
Proposed significant new use rules: Not listed
Substances consent order: Not listed

Canada Regulatory Information
CEPA DSL/NDSL Status:

All components are listed on or are exempt.

16. OTHER INFORMATION

DISCLAIMER: The data contained herein is believed to be reliable. However, Atom Adhesives doesn't assume responsibility for any results obtained by persons over whose methods Atom Adhesives has no control. It is the user's responsibility to determine the suitability of Atom Adhesives products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the property and person against any hazards that may be involved in the handling and use of any Atom Adhesives' products. Atom Adhesives disclaims all warranties, or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Atom Adhesives' products. Atom Adhesives further disclaims any liability for consequential or incidental damages of any kind, including lost profits.