

SAFETY DATA SHEET



Triangle Fastener Corporation

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Version: 1.1
Revision Date: 5/5/2015

APS 500 Ultra-Clear Advanced Polymer Sealant

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Brand Name: APS 500 Ultra-Clear Advanced Polymer Sealant
Other Names/Synonyms: None
Recommended Use: Sealant - Other
Uses advised against: No information available

Company Contact Information

Triangle Fastener Corporation
1925 Preble Ave
Pittsburgh, PA 15233
Telephone: 412-321-5000

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 (24 hours) or 1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification



Classification: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity – Inhalation (Dusts/Mists): Category 4

Serious eye damage/eye irritation: Category 2A

Carcinogenicity: Category 1B

Reproductive toxicity: Category 1B

Emergency Overview: Signal word - Danger

Hazard Statements: Harmful if inhaled; Causes serious eye irritation; May cause cancer; May damage fertility or the unborn child

Appearance: Clear

Physical State: Paste Liquid

Odor: Mint-Like

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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
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection

Precautionary Statements - Response

IF exposed or concerned: get medical advice/attention

Eyes

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

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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 Toxicity

98.2% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Causes mild skin irritation
Toxic to aquatic life with long lasting effects

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Mixture

Chemical Nature: Acrylic Modified MS

<u>CAS Number</u>	<u>*Wt %</u>	<u>Component Name</u>
Proprietary	40 – 60	Supplier Trade Secret (Proprietary Polymer)

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68611-44-9	5 – 15	Silane, dichlorodimethyl-, reaction products with silica
53306-54-0	25 – 40	bis (2-propylheptyl) phthalate

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General Advice: Show this safety data sheet to the doctor in attendance.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin Contact

Wash with soap and water.

Inhalation

Remove to fresh air.

Ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Most Important Symptoms and Effects

Burning sensation; coughing and/or wheezing; difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

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Specific Hazards Arising from the Chemical

No information available.

Uniform Fire Code

Irritant: Liquid

Toxic: Liquid

Hazardous Combustion Products

Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact: No

Sensitivity to Static Discharge: No

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid generation of dust. Do not breathe dust.

Other Information

Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions

Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

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Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

Incompatible Products

None known based on information supplied.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Supplier Trade Secret	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³ Di-sec-octyl phthalate (vacated) STEL: 10 mg/m ³ Di-sec-octyl phthalate	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

Skin and Body Protection

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Wear protective gloves and protective clothing.

Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Do not breathe dust. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical Form: Paste, Liquid
Color: Clear with a green tint
Odor: Mint-like
Odor Threshold: No information available
Appearance: Clear

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing Properties	No data available	

Other Information

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Softening Point	No data available
VOC Content (%)	<3 (10 g/L)
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation:

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

Eye Contact:

Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.

Skin Contact:

Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

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Ingestion:

Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Supplier Trade Secret	= 6860 mg/kg (Rat)	= 25 g/kg (Rabbit)	> 10.62 mg/L (Rat) 4 h > 23.67 mg/L (Rat) 1 h

Information on toxicological effects

Symptoms:

May cause redness and tearing of the eyes, coughing and/or wheezing.

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

Sensitization:

No information available.

Mutagenic Effects:

No information available.

Carcinogenicity:

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Supplier Trade Secret	A3	Group 2B	Reasonably Anticipated	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity

Contains a known or suspected reproductive toxin.

STOT - single exposure

No information available.

STOT - repeated exposure

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No information available.

Chronic Toxicity

No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects.

Target Organ Effects

Respiratory system. Eyes. Gastrointestinal tract (GI). Reproductive System.

Aspiration Hazard

No information available.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) = 2.70 mg/L

12. ECOLOGICAL CONSIDERATIONS

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Supplier Trade Secret	72h EC50: > 130 mg/L (Desmodesmus subspicatus) 96h EC50: > 0.1 mg/L (Pseudokirchneriella subcapitata)	96h LC50: > 0.16 mg/L (Pimephales promelas) 96h LC50: > 0.200 mg/L (Lepomis macrochirus) 96h LC50: 0.27 - 0.67 mg/L (Pimephales promelas) 96h LC50: > 0.32 mg/L (Oncorhynchus mykiss) 96h LC50: > 0.32 mg/L (Brachydanio rerio) 96h LC50: > 0.32 mg/L (Oryzias latipes) 96h LC50: > 100 mg/L (Oncorhynchus mykiss) 96h LC50: > 0.32 mg/L (Poecilia reticulata) 96h LC50: > 0.67 mg/L (Oryzias latipes)	EC50 = 800 mg/L 15 min EC50 = 800 mg/L 30 min EC50 = 800 mg/L 5 min	48h EC50: > 0.16 mg/L 48h LC50: = 9.4 mg/L

Persistence and Degradability

No information available.

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Bioaccumulation

Chemical Name	Log Pow
Supplier Trade Secret	5.03

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number

U028

Chemical Name	RCRA	RCRA- Basis for Listing	RCRA- D Series Wastes	RCRA- U Series Wastes
Supplier Trade Secret	U028	Included in waste stream: F039		U028

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT NOT REGULATED

- Proper Shipping Name: Non-regulated
- Hazard Class: N/A

TDG Not regulated

MEX Not regulated

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ICAO Not regulated

IATA Not regulated

- Proper Shipping Name: Non-regulated
- Hazard Class: N/A

IMDG/IMO Not regulated

- Hazard Class: N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

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

Chemical Name	Weight- %	SARA 313 – Threshold Values %
Supplier Trade Secret	0.1 – 1	0.1

SARA 311/312 Hazard Categories

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

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Reactive Hazard: No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA-Reportable	CWA- Toxic Pollutants	CWA- Priority Pollutants	CWA- Hazardous Substances
Supplier Trade Secret		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substance RQs	RQ
Supplier Trade Secret	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

None reportable.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Supplier Trade Secret	X	X	X	X	X

International Regulations

Mexico

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Component	Carcinogen Status	Exposure Limits
Supplier Trade Secret (0.1-1)	A3	TWA= 5 mg/m ³ STEL= 10 mg/m ³

Canada

WHMIS Hazard Class

D2A – Very toxic materials

D2B - Toxic materials



16. OTHER INFORMATION

NFPA

Health Hazards: 2
Flammability: 0
Instability: 0
Physical/Chemical Haz. -

HMIS

Health Hazards: 2
Flammability: 0
Physical Hazard: 0
Personal Protection: X

**Note: The responsibility to provide a safe workplace remains with the user.
The user should consider the health hazards and safety information**

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contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations. 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

<http://www.trianglefastener.com/>