

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

1. COMPANY AND PRODUCT INFORMATION

Company Name: ALPHATEK MATERIALS
Company Address: 2372 Morse Ave., Ste. 167, Irvine, CA 92614
Tel: 1-949-387-4271
Last Issue Date: 5/27/2017

Product Number: AT-705-AM – AM OUTDOOR
Chemical Name: Polysilazane Mixture
Chemical Family: Polymeric Resin-Solvent Blend
Chemical Formula: Proprietary Blend

Product Use: Clear Antimicrobial Hydrophobic Protective Surface Coating

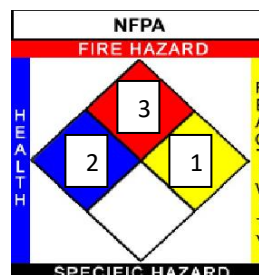
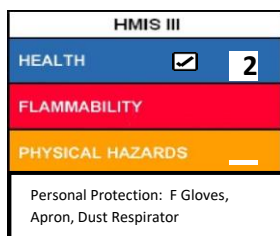
EPA Co. No: 096235
EPA Reg. No.: 83019-1
EPA Est. No.: 96235-CA-1

2. HAZARDS IDENTIFICATION

HMIS RATINGS:

Health Hazard	2
Flammability Hazard	3
Reactivity Hazard	1

LABEL STANDARD:



AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

GHS SIGNAL WORD:

Signal Word: Danger

GHS HAZARD PICTOGRAMS:



GHS CLASSIFICATIONS:

Physical, Flammable Liquids,
Health, Acute toxicity, 4 Oral
Health, Aspiration hazard, 2
Health, Skin corrosion/irritation, 2
Health, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Acute toxicity, 4 inhalation
Health, Specific target organ toxicity - Single exposure, 1
Health, Specific target organ toxicity, single exposure, 3
Health, Specific target organ toxicity - Repeated exposure, 2
Environmental, Hazards to the aquatic environment - Acute, 2

GHS Phrases:

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H305 - May be harmful if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H370 - Causes damage to organs
H373 - May cause damage to organs through prolonged or repeated exposure
H401 - Toxic to aquatic life

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P211 - Do not spray on an open flame or other ignition source.
P232 - Protect from moisture.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/light/equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash hands thoroughly after handling.

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P284 - Wear respiratory protection.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting, contact a doctor/physician.
P302+ 352- IF ON SKIN – Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 - IF IN EYES: Seek immediate medical attention.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing, if irritation persists contact a doctor/physician.
P362 - Take off contaminated clothing and wash before reuse.
P370+376 - In case of fire: Stop leak if safe to do so
P370+378 - In case of fire: Use CO₂, dry chemical powder, foam or alcohol foam for extinction.
P370+380 - In case of fire: Evacuate area.
P374 - Fight fire with normal precautions from a reasonable distance.
P381 - Eliminate all ignition sources if safe to do so.
P402+404 - Store in a dry, cool place. Store in a closed container.
P411 - Store at temperatures not exceeding 25 °C/77 °F.
P501 - Dispose of contents/container to licensed waste facility.
NOTE: tert Butyl acetate is listed as a VOC Exempt solvent.

ROUTES OF ENTRY:

Eyes, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS

SHORT-TERM EXPOSURE (ACUTE):

Inhalation: May cause respiratory tract irritation. At higher vapor concentrations, inhalation may affect central nervous systems.

Eyes: May cause irritation

Skin: May cause irritation through absorption

Ingestion: Harmful if swallowed

REPEATED EXPOSURE (CHRONIC):

No known application information at this time.

Synergistic Materials: No known application information at this time.

Medical Conditions Aggravated by Exposure: No known application information at this time.



AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

CARCINOGENICITY:

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

OTHER: There are no known carcinogenic ingredients present at over 0.1% in this material.

SECTION 2 NOTES: Above information is based off of standard industrial use of this product. Abnormal use and contact may result in increased damage and irritation to all affected areas.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients that are identified as toxic via the SARA guidelines are listed below per section 313 of the 40CFR372

CAS NUMBER	CHEMICAL NAME	PERCENTAGE VALUE (%)
199111-50-7	(Trihydroxysilyl)propyldimethyloctadecyl ammonium chloride	0.25-1.0
9006-65-9	Polysilazane Mixture	18-40
540-88-5	Tert-Butyl Acetate or Similar VOC Exempt Solvent Mixture (proprietary blend)	25-80
7128-64-5	Optical Brightener (Non-Toxic Material FDA Approved)	0.0005-0.001
8006-90-4	Fragrance Mint	0.01-0.9

Unlisted Ingredients are not listed in the SARA classification and are deemed proprietary

SECTION 3 NOTES:

Ingredients not listed here are also not listed in the SARA classification and are deemed proprietary.

4. FIRST AID MEASURES

Eye Contact:

Immediately flush with water for at least 15 minutes. If irritation persists, seek medical attention.

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

Skin Contact:

Wash contact area thoroughly with soap and water. Wash clothing separately from other garments. If irritation persists, stop using garments and seek medical advice.

Inhalation:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen and seek medical attention.

Ingestion:

Do not induce vomiting. Seek medical attention immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

Administration of absorbents may be of value.

SECTION 4 NOTES: Always wear protective eyewear, gloves and clothing when handling any chemicals.

5. FIRE FIGHTING MEASURES

Flammability:

Class B Flammable Liquid

Extinguishing Media:

Carbon Dioxide, Dry Chemical Powder, Extinguishing Foam Media.

Fire Fighting Procedures:

Evacuate all unnecessary personnel. Shut down all electrical devices in exposed area. Use water to keep adjacent containers cool to prevent pressure build-up. Wear self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazard:

Container explosion may occur under fire conditions. Toxic fumes from container may be emitted under fire conditions.

Hazardous Decomposition Products:

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

Chlorine containing gas, Fluorine containing gas, may be discharged upon decomposition.

SECTION 5 NOTES:

Avoid static charge build-up. Static charge could ignite heavy vapors.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Determine to evacuate or isolate the area according to your local emergency plan. For large spills, supply emergency diking to contain materials. After removal of bulk material, the use of an absorbent is needed for final clean up. Remove waste materials to a location per your local, State or Federal waste management regulations.

SECTION 6 NOTES:

Always wear personal protective equipment when handling all types of chemicals and waste products. Refer to section 8 for Personal Protective Equipment.

7. HANDLING AND STORAGE

Storage and Handling:

Store in cool dry location with adequate ventilation. Do not store in direct sunlight. Keep containers tightly sealed when not in use. Avoid leaving open containers during use.

Store in temperatures between 55°F (13°C) and 80°F (27°C).

Other Precautions:

Always wear protection clothing when handling all chemicals. See section 8 for details.

SECTION 7 NOTES:

Do not smoke when handling materials. Keep away from moisture and standing water.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

Appropriate Hygiene Practices:

The use of proper cleaning soaps and solutions for all body parts is recommended. Eye wash stations and showers in accordance with OSHA and local safety regulations is advised and in close proximity.

Engineering Controls:

Local and general ventilation is recommended.

Respiratory:

Use respiratory protection unless adequate ventilation is in place and has been assessed to provide proper air movement for recommended exposure. Follow OSHA requirements for respirator regulations 29CFR 1910.134.

Eyes/Face:

Always wear protective eyewear or goggles. Recommend use of full-face respirator or large volume handling and spills.

Skin:

Chemical protective gloves are always recommended. Wash exposed skin immediately if contact with chemical occurs

Other Protective Clothing or Equipment:

The use of chemical resistant aprons, shoe covers and face shields is recommended for any handling of chemicals.

Exposure Guidelines:

Refer to sections 4, 7, and 8 for contact and exposure recommendations

SECTION 8 NOTES:

Note that all of these precautions are based off of room temperature handling. Elevated temperatures may increase the need for extra care in handling of materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear Liquid

Total Non-Exempt

VOC (grams / liters): 0.0g/L

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

	<i>*VOC content less exempt compounds: 560g/L per 40CFR51.100(s).</i>
Viscosity:	12-17 Seconds (#2 Zahn Cup) @77°F / 25°C
Solids (%):	32
Molecular Weight:	<55ps
Solubility in Water:	Reacts with Water

10. STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility (Materials to Avoid):	Oxidizers, Isocyanates, Water, Protic Solvents, Mineral Acids and Alkalis
Hazardous Polymerization:	Will Not Occur
Hazardous Decomposition Products:	Chlorine containing gasses, Fluorine containing gasses, Carbon Monoxide, Carbon Dioxide and Silicon Dioxide.
Conditions to Avoid (Polymerization):	N/A

SECTION 10 NOTES: The above criteria may not be all the materials that affect stability, but per testing, the above information is true to the best of our knowledge.

11. TOXOLOGICAL INFORMATION

Carcinogenicity Information:

Not listed as carcinogen by NTP (National Toxicology Program); not regulated as a carcinogen by OSHA (Occupational Safety and Health Administration); not evaluated by IARC (International Agency for Research on Cancer)

Reported Human Effects:

No human studies have been conducted with this material. The use of this material when used as directed should not have any adverse effects.

12. ECOLOGICAL INFORMATION

This material may be hazardous to aquatic organisms. Avoid release to surface waters and waste treatment systems.

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Do not mix this product with aqueous or other protic waste streams. Incineration of combustible waste material in a permitted facility in accordance with the local, state, and federal regulations is the recommended disposal method.

RCRA HAZARD CLASS:

I / Ignitable

SECTION 13 NOTES:

Local and state regulations may exceed federal standards. Always consult your local waste authority for proper disposal requirements.

14. TRANSPORTATION INFORMATION

US DOT:

Proper Shipping Name: Paint Related Materials

Hazard Class: 3

UN Number: 1263

Packing Group: III

Label Statement: Flammable Liquid



WATER TRANSPORTATION:

Proper Shipping Name: Paint Related Materials

Hazard Class: 3

UN Number: 1263

Packing Group: III

EmS No.: 30 S-E, F-E

Label Statement: Flammable Liquid



AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

AIR TRANSPORTATION:

Proper Shipping Name: Paint Related Materials

Hazard Class: 3

UN Number: 1263

Packing Group: III

Label Statement: Flammable Liquid



CONSUMER COMMODITY:

ID Number: 8000

Hazard Class: 9

Label Statement:

Label ORM-D Domestic:



SECTION 14 NOTES:

Labels to match on both SDS and packaging as required

15. REGULATORY INFORMATION

U.S. Federal Regulations:

EPA FIFRA Registration:

HM-4100 is a Federal fungicide regulated antimicrobial, **EPA Reg. No.** 83019-1

TSCA Exemption/Exclusion: This substance is excluded from U.S. TSCA notification requirements according to 40 CFR 720.30(a).

CERCLA (Comprehensive Response Compensation and Liability Act): None

SARA TITLE III (Superfund Amendments and Reauthorization Act):

None

311/312 HAZARD CATEGORIES:

Acute: No

AT-705-AM – AM OUTDOOR

Part of the **AlphaSAFE** Antimicrobial Line

SAFETY DATA SHEET

Chronic: No

Fire: Yes

Pressure: No

Reactive: no

313 REPORTABLE INGREDIENTS:

None present or none present in regulated quantities.

STATE REGULATIONS:

Exempt list per 40CFR51.100(s).

INTERNATIONAL REGULATIONS:

Subject to specific country, province, state or district regulations.

16. OTHER INFORMATION

*EPA Reg. No.: 83019-1
*EPA Est. No.: 96235-CA-1

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you (as it is your legal duty to) make all information in this Safety Data Sheet available to all your employees.

Prepared By: AlphaTek Materials, LLC.

Disclaimer:

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