



# STA'-PUT® SPM ADHESIVE

JUL 31 1998

## TECHNICAL DATA SHEET

STA'-PUT® ADHESIVES

TACC International Corporation

REVISED: April 09, 1998

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Product Name: STA'-PUT® SPM Aerosol Adhesive (Water Resistant/Multi-Purpose)

### TYPICAL PROPERTIES

VAPOR PRESSURE	70PSIG @ 70°F	SOLVENT	CHLORINATED
SOLIDS %	26-32%	SPECIFIC GRAVITY	0.800 to 0.890
BASE	POLYMER	VAPOR DENSITY (AIR=1)	>1
APPEARANCE	GREEN or CLEAR	EVAPORATION RATE	>1
FLASH POINT	FLAMMABLE - PER FLAME PROJECTION TEST	SOLUBILITY IN WATER	NEGLIGIBLE

### LAP SHEAR

ASTM D 1002-72 and 1151-84 test procedures were used as guidelines. An even coating of SPM Adhesive was applied at a rate of 0.03 grams per square inch to high pressure decorative laminate and particle board. Two minutes of flash time were allowed for solvent evaporation before bonding. Two single square inch areas of the surfaces were then bonded together using a pressure of 20 psi for one minute. The samples were prepared and conditioned at 68°F and 50% R.H. for 24 hours prior to testing. Using these conditions, and an Instron Crosshead speed of 0.2 inches per minute, the lap shear exceeded 200 psi in all cases. In most cases, the particle board actually broke before the adhesive failed.

### FLAMMABILITY

STA'-PUT® SPM Series is classified as flammable per Flame Projection Tests, while packaged in aerosol form. However, upon application and allowing adequate evaporation time, SPM becomes a Non-Flammable Adhesive. Listed below are test results from an independent testing facility showing STA'-PUT® SPM complies with Federal Aviation Regulation 25.853(b) for materials used in aircraft interiors.

FEDERAL AVIATION REGULATION 25.853 (b)	Extinguish Time	Burn Length	Drip Extinguish	Burn Time
Test Requirement (maximum)	15 seconds	8 inch average	5 seconds	-----
STA'-PUT SPM Results	0-1.35 seconds	.125 inch	none	12.0-13.3 seconds*

\*Carpet without adhesive Burn Time is 12.1 seconds

### DESCRIPTION OF USE

Temperature of adhesive and materials during fabrication should be 70°F/21°C and properly conditioned for optimal results. Thoroughly clean all surfaces to be bonded by removing all dust, dirt, oil, grease, powder, mold release agent or any other material that would detract from the finished bond. If solvents are used to clean the surfaces, allow adequate time for drying and wipe surface with a clean dry cloth before applying adhesive. Apply an even coat of adhesive allowing STA'-PUT® to "web" evenly across surface. Do not hold too close and "wet" the surface. It is important that STA'-PUT® "webs" across the surface and 80% to 100% coverage is achieved. One surface should be sprayed vertically and the other horizontally. Do not concentrate in one spot or allow to puddle. Double coating applications are recommended on any porous surface. After the first coat dries, apply a second coat evenly. When temperature is 70°F/21°C and relative humidity is 50%, allow a minimum of 2 minutes for adhesive to tack and bond together with firm pressure. Tack time may vary depending on climate conditions, lower temperatures or higher humidity can increase tack time. It is important that maximum uniform pressure be applied over entire surface area to achieve maximum bonding strength. Use STA'-PUT® in a well ventilated area. Always read and follow instructions before using. Test to see if STA'-PUT® SPM works for your applications.

### STORAGE AND HANDLING

STA'-PUT® SPM Aerosol Adhesive is guaranteed for twelve (12) months from the date of manufacture, if stored in a controlled environment between 60°F/16°C and 100°F/38°C and away from direct sunlight. Use approved equipment for transport of container to avoid puncturing or rupturing container. Do not store on concrete floors. Do not use air pressure to transfer product. DO NOT reuse cannister. Clean up small spillage with floor cleaning compound or other suitable absorbents. Larger spills should be flushed to collection basin for disposal. Clean area of spill with detergent and water.

### SEE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION

THE STATEMENTS AND TECHNICAL INFORMATION CONTAINED IN THIS TECHNICAL DATA SHEET ARE BASED ON TESTS AND DATA WHICH STA'-PUT® ADHESIVES BELIEVES TO BE RELIABLE. HOWEVER THE OCCURRING AND COMPLETENESS OF SUCH STATEMENTS AND TECHNICAL INFORMATION IS NOT GUARANTEED. STA'-PUT® ADHESIVES MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. USER IS RESPONSIBLE FOR DETERMINING WHETHER THE PRODUCT IS FIT FOR A PARTICULAR USE AND IS SUITABLE FOR USER'S METHOD OF APPLICATION.

*"Our quality and service*



*assures your satisfaction"*

## MATERIAL SAFETY DATA SHEET

STA'-PUT® ADHESIVES  
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Emergency Number: Chemtrec 1-800-424-9300  
Date Prepared: 05-02-95  
Revised: 04-09-98  
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### SECTION 1 -- IDENTITY

**LABEL NAME:** STA'-PUT® M, STA'-PUT® High Temp Spray Adhesive  
**TRADE NAME OR SYNONYM:** SPM, SPH Spray Adhesive Series  
**CAS NUMBER:** Mixture

**CHEMICAL NAME:** Mixture

### SECTION 2 -- HAZARDOUS INGREDIENTS

#### PRINCIPAL HAZARDOUS COMPONENTS

Methylene Chloride

#### TLV

OSHA PEL = 25 ppm (8 hour TWA);

STEL (15 minutes) = 125 ppm

ACGIH TLV = 50 ppm

Hydrocarbon Propellant

OSHA PEL = Not Established (1000 ppm recommended)

The chemical composition and percentages are considered trade secrets. This product contains the following chemicals listed under SARA Title III, section 313:

Methylene Chloride

CAS # 75-09-2

Percentage: 45-55%

### SECTION 3 -- PHYSICAL AND CHEMICAL CHARACTERISTICS (FIRE AND EXPLOSION DATA)

**BOILING POINT:** N/E

**SPECIFIC GRAVITY:** 0.800 - 0.890

**VAPOR PRESSURE:** 70 PSIG @ 70°F

**PERCENT VOC BY WEIGHT:** <35%

**VAPOR DENSITY (AIR = 1):** >1

**EVAPORATION RATE:** >1

**SOLUBILITY IN WATER:** Negligible

**REACTIVITY IN WATER:** None

**APPEARANCE AND ODOR:** Clear, green or red color, Organic solvent odor

**FLASH POINT:**

**FLAMMABLE LIMITS IN AIR (% BY VOLUME)**

**LOWER:** N/E

**UPPER:** N/E

Flammable per flame projection test (16CFR1500.45)

**EXTINGUISHER MEDIA:** Dry Chemical, CO<sub>2</sub>

**AUTO-IGNITION TEMPERATURE:** N/A

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** At elevated temperatures (over 120°F), containers may vent, rupture or burst, releasing flammable vapors.

### SECTION 4 -- PHYSICAL HAZARDS

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Open flames, high heat

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield Carbon Monoxide, Hydrogen Chloride, Phosgene and Chloride.

**HAZARDOUS POLYMERIZATION:** Will not occur

(OVER FOR ADDITIONAL INFORMATION)



## SECTION 5 -- HEALTH HAZARDS

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**MAIN ROUTES OF ENTRY:** Inhalation, Skin

**SIGNS AND SYMPTOMS OF EXPOSURE**

- 1) **ACUTE OVEREXPOSURE:** Liquid is irritating to eyes and skin. Prolonged exposure to skin can cause a burning sensation. Breathing vapors may cause lightheadedness, dizziness, headache, nausea and in extreme cases, unconsciousness and death.
- 2) **CHRONIC OVEREXPOSURE:** Prolonged and repeated exposure may produce depression, fatigue, loss of appetite, vomiting cough, loss of sense of balance, dermatitis.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing eye, skin, respiratory disorders may be aggravated by exposure to this product. An occasional patient may exhibit an allergic reaction with erythema, hives, respiratory difficulties or other symptoms.

**LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:** Methylene Chloride

- 1) **NATIONAL TOXICOLOGY PROGRAM:** Evidence in laboratory animals
- 2) **I.A.R.C. PROGRAM:** Group 2B animal carcinogen
- 3) **OSHA:** No

Epidemiology studies of 751 humans chronically exposed to Methylene Chloride in the workplace of which 252 were exposed for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results.

**EMERGENCY FIRST AID PROCEDURES**

- 1) **INHALATION:** Move person to uncontaminated atmosphere. If not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Get medical attention.
- 2) **EYES:** Wash with large amounts of water for at least 15 minutes, then get medical attention.
- 3) **SKIN:** Remove contaminated clothing and flush exposed areas with water for 15 minutes. Do not rub. If irritation persists, contact physician. (Skin reaction may take 24-48 hours to develop).
- 4) **INGESTION:** Do not induce vomiting, get immediate medical attention.

## SECTION 6 -- SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Not required if adequate ventilation. If ventilation is not adequate, a suitable NIOSH approved respirator and cartridge or self-contained breathing apparatus should be used.

**VENTILATION:** Local exhaust recommended.

**GLOVES:** Impervious gloves recommended.

**EYE PROTECTION:** Goggles or glasses recommended.

**OTHER:** General good housekeeping is recommended.

## SECTION 7 -- SPECIAL PRECAUTIONS AND SPILL / LEAK PROTECTION

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store containers in cool, dry area. Do not puncture or incinerate containers.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate spill area to allow solvents to evaporate and collect in suitable containers for disposal. Use appropriate personal protective equipment.

**WASTE DISPOSAL METHODS:** Dispose in accordance with all Federal, State and local regulations.

N/E = NOT ESTABLISHED

N/A = NOT AVAILABLE

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