Material Safety Data Sheet

FAST Adhesive Box Set Part B **MSDS No. 302911B**

Date of Preparation: 07/20/07 Revision: 004

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: FAST Adhesive Box Set Part B
Chemical Formula: Mixture
General Use: Spray Adhesive
Manufacturer: Carlisle SynTec Incorporated, 1285 Ritner Highway, Carlisle, PA 17013, Phone: 800-4SYNTEC
Emergency Phone Number: CHEMTREC (USA) 800-424-9300

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt *or* % vol
Polyol Blend	Confidential	65-90%
Water	7732-18-5	4-5%
1,1,1,2 Tetrafluoroethane Compressed Gas	811-97-2	10-30%

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS	
H	1
F	1
R	1
PPE†	
†Sec. 8	

Potential Health Effects

Primary Entry Routes: Skin contact, skin absorption, eye contact, inhalation, and ingestion.
Acute Effects
Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system. Inhalation of high concentrations of vapor is harmful and may cause heart irregularities. Persons with cardiac arrhythmia may be at increased risk in severe exposure.
Eye: This product may cause irritation to the eyes
Skin: Prolonged and/or repeated contact may cause irritation or redness. Direct, severe or prolonged exposure may lead to frostbite.
Ingestion: Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.
Carcinogenicity: IARC, NTP, and OSHA do not list this product as a carcinogen.
Medical Conditions Aggravated by Long-Term Exposure: None determined. Note: This product may contain 1,4-Dioxane as a by-product, which can be absorbed by inhalation and through the skin. Be advised that 1,4-Dioxane is a cancer-suspect agent and can cause liver and kidney injury with over-exposure.
Chronic Effects: See above.

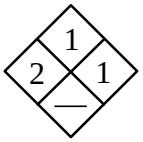
Section 4 - First Aid Measures

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air,. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Eye Contact: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention.
Skin Contact: Immediately take off all contaminated clothing. Wash with large amounts of water. If irritation persists, get medical attention.
Ingestion: If ingestion of a large amount does occur, seek medical attention immediately.
After first aid, get appropriate in-plant, paramedic, or community medical support.
Special Precautions/Procedures: Whenever possible, remove the worker from the source of contamination.

Section 5 - Fire-Fighting Measures

Flash Point: >201°F (>93.9°C)
Flash Point Method: Pensky-Martens closed cup.
LEL: Not determined.
UEL: Not determined.
Extinguishing Media: In case of fire, use dry chemical, carbon dioxide, foam or water fog.
Unusual Fire or Explosion Hazards: Under fire conditions, closed containers may build up pressure and possibly rupture.
Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide, Hydrogen Halides, and Phosphorus oxides.

NFPA



Fire-Fighting Instructions: Fire fighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Wear appropriate personal protective equipment during cleanup. Surfaces may become slippery after spillage.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to open containers for later disposal.

Large Spills: Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas. Absorb with earth, sand or other non-combustible material and transfer to open containers for later disposal.

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120) and local, state and federal regulations.

Section 7 - Handling and Storage

Handling Precautions: Wash with soap and water before eating, drinking, or smoking. Launder contaminated clothing. Avoid skin contact. KEEP OUT OF REACH OF CHILDREN.

Storage Requirements: Store in a dry, well-ventilated area between 65°-85°F (18-30°C). Store away from oxidizers, strong acids, strong bases and isocyanates.

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Liquid.

Appearance and Odor: Amber, viscous liquid with musty odor

Vapor Density (Air=1): Estimated lighter than air.

Specific Gravity (H_2O=1, at 4 °C): 1.103 g/ml

Vapor Pressure: Contents under pressure have vapor pressure greater than 50 psig (345 Kpa). Less than 0.0001 mm Hg at 25 °C after release from container.

Density: 9.18 lb/gal @ 25°C

Water Solubility: Not determined.

Boiling Point(°C): >100°C (212°F) for polyol, -26.2°C (15°F) for 1,1,1,2-TFE

Freezing/Melting Point(°C): Not determined.

Viscosity: 100-250cps

% Volatile: 4-5

Evaporation Rate(nBuAc=1): Estimated slower than Ethyl Ether

VOC (gpl): Negligible

Section 10 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur under normal handling conditions.

Chemical Incompatibilities: Strong oxidizing agents.

Conditions to Avoid: Prolonged heating above 160°C or storage below 5°C

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Hydrogen Halides, and Phosphorous Oxides under fire conditions.

Section 11- Toxicological Information

Toxicity Data:

Eye Effects: Minor irritation and reddening
Skin Effects: Irritation
Acute Inhalation Effects: Minor Irritation
Acute Oral Effects: Not Established
Chronic Effects: None determined.

Carcinogenicity: None known.
Mutagenicity: None known.
Teratogenicity: None known.

Section 12 - Ecological Information

Ecotoxicity: Not Available
Environmental Fate: Not Available
Environmental Degradation: Not Available
Soil Absorption/Mobility: Not Available

Section 13 - Disposal Considerations

Disposal: Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, local and provincial regulations.
Disposal Regulatory Requirements: Dispose of by incinerating according to local, state, provincial and federal regulations

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Compressed gas n.o.s. (1,1,1,2 Tetrafluoroethane)
Shipping Symbols: G
Hazard Class: 2.2
ID No.: UN 1956
Packing Group:
Label: Class 2.2
Special Provisions (172.102):

Packaging Authorizations
a) Exceptions: 173.306, 173.307
b) Non-bulk Packaging: 173.302, 173.305
c) Bulk Packaging: 173.314, 173.315

Quantity Limitations
a) Passenger, Aircraft, or Railcar: 75 kg
b) Cargo Aircraft Only: 150 kg

Vessel Stowage Requirements
a) Vessel Stowage: A
b) Other:

Section 15 - Regulatory Information

EPA Regulations:
SARA Toxic Chemical (40 CFR 372.65): Not listed
All components of this product are listed on the following inventories: U.S.A. (TSCA)
TSCA Status
On the TSCA inventory
1,1,1,2 Tetrafluoroethane – TSCA flags: S

State Regulations: California Proposition 65: This product contains the following chemical(s) known to the state of California to cause cancer: None.

Minnesota Hazardous Substance List

Chemical Name	CAS Number	Codes	Hazards	Carcinogen
1,1,1,2-Tetrafluoroethane	811-97-2	I	--	False

Section 16 - Other Information

Prepared By: Research & Development
Revision Notes: Added VOC content to Section 9.

Additional Hazard Rating Systems:

Disclaimer: The information contained in this document is based upon data that was supplied to Carlisle by other companies and organizations. No warranty of merchantability or fitness for a particular purpose is expressed or implied regarding the accuracy or completeness of the data and/or information in this material safety data sheet.