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MATERIAL SAFETY DATA SHEET

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Supercedes All Previous Publications

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=====SECTION I PRODUCT INFORMATION=====

PRODUCT NAME: **SPRAY FOAM ADHESIVE REVISED**

TRADE NAME: NCFI 10-001 R CHEMICAL FAMILY: Polyol Resin System  
CHEMICAL NAME: Mixture FORMULA: N/A  
SYNONYMS: Polyurethane Resin

=====SECTION II HAZARDOUS INGREDIENTS=====

Name:	CAS NO.	%	PEL
1,1,1,3,3-pentafluoropropane (CF <sub>3</sub> CH <sub>2</sub> CHF <sub>2</sub> or HCFC-245fa)	460-73-1	11	None Established 300 ppm TWA 300 ppm TWA recommended
Tertiary Amine Catalyst' 'Not listed as a carcinogen (NTA, IARC, OSHA)		<3	None Established

=====SECTION III SHIPPING INFORMATION=====

Not regulated when shipped by land, water or air.

=====SECTION IV PHYSICAL DATA=====

**Boiling Point:** (°F): CF<sub>3</sub>CH<sub>2</sub>CHF<sub>2</sub> 60°F **Specific Gravity:** 1.19  
**Solubility in Water:** Slight **% Volatile by Volume:** 11  
**Appearance and Odor:** Amber liquid, ethereal odor

=====SECTION V FIRE AND EXPLOSION HAZARD DATA=====

**Flash Point (test method):** After CF<sub>3</sub>CH<sub>2</sub>CHF<sub>2</sub> evaporation, > 200°F (P-M) **Flammable Limits (vapor)**  
**Extinguishing Media:** Water, dry chemicals, CO<sub>2</sub> Lower: None Upper: None  
**Special Fire Fighting Procedures:** A self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.

**Unusual Fire and Explosion Hazards:** Overheated containers may rupture due to pressure produced by CF<sub>3</sub>CH<sub>2</sub>CHF<sub>2</sub>. CF<sub>3</sub>CH<sub>2</sub>CHF<sub>2</sub> burns to form acids and noxious gases.

=====SECTION VI REACTIVITY DATA=====

**Stability:** Stable **Conditions to Avoid:** Temperatures over 85°F

**Polymerization:** Will not occur. **Conditions to Avoid:** N/A

**Incompatibility:** Isocyanates and other chemicals which react with hydroxyl groups.

**Hazardous Decomposition Products:** When burned; CO, CO<sub>2</sub>, NO<sub>x</sub>, aliphatic fragments, halogens, halogen acids and possibly carbonyl halides.

=====SECTION VII HEALTH HAZARD DATA=====

**Permissible Exposure Limit:** None established. 500 ppm TWA and 800 ppm STEL recommended for CH<sub>3</sub> CCl<sub>2</sub> F.

**Effects of Overexposure:** May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation, and may result in cardiac sensitization. CH<sub>3</sub> CCl<sub>2</sub> F vapors can also cause drowsiness, unconsciousness and respiratory depression.

=====SECTION VIII FIRST AID PROCEDURES=====

**Eyes:** Flush with water for at least 15 minutes. See a physician if irritation develops.

**Skin:** Wash with soap & water at first opportunity.

**Inhalation:** Move to fresh air if symptoms develop. If breathing is difficult, give oxygen and call physician.

**Ingestion:** Induce vomiting; get medical attention.

=====SECTION IX SPECIAL PROTECTION INFORMATION=====

**Ventilation:** Local exhaust ventilation is recommended when working with this product. Uses requiring heating and/or spraying may require more ventilation or personal protective equipment.

**Respiratory Protection:** The specific respirator selected must be based on contamination levels of this blend found in the workplace and must not exceed the working limits of the respirator. A supplied air, full-face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, *see OSHA standard 29CFR 1910.134*. All equipment must be NIOSH/MSHA approved and maintained.

**Eye Protection:** Goggles or chemical safety glasses.

**Gloves:** Chemically resistant rubber or plastic.

**Other:** Avoid eye and skin contact. Eye wash system and showers should be available.

=====SECTION X SPILL OR LEAK PROCEDURES=====

Remove or extinguish ignition or combustion sources.  
Contain spill. Absorb with sawdust, etc., and shovel into container.  
Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.  
Wash area with detergent and water.

=====SECTION XI SPECIAL PRECAUTIONS=====

Store between 65°F and 85°F out of sunlight. Keep tightly sealed. Relieve pressure slowly when opening container. R Component drums can be sent to drum reconditioners or disposed of as ordinary industrial waste in compliance with pertinent regulations.

**CAUTION:** Under no circumstances should empty drums be burned or cut open with an electric or gas torch.

=====SECTION XII PREPARATION INFORMATION=====

**DISCLAIMER:** 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 use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.