

# TECHNICAL DATA REPORT

## Non-Flammable Solvent Contact Adhesive for HVAC Insulation: Mean Green Cylinders

Part Number: **MG-Series (MG-SC, MG-LC, MG-200)** | Recommended Use: Non-Flammable Contact Adhesive designed for permanent, structural bonding of fiberglass, duct liner, and bubble wrap insulation to sheet metal in commercial and industrial HVAC applications.

### 1. Product Overview & Key Features

Mean Green Cylinders utilize a proprietary high-performance, non-flammable solvent system to replace the outdated, restricted Methylene Chloride (MeCl) technology. Engineered as a strategic “Bridge Solution,” this adhesive remains compliant through regulatory shifts while maintaining aggressive tack and instant grab. With an impressive high solids content, the formula ensures superior yield and thermal stability for heavy-duty HVAC fabrication.

#### Compliance and Performance Highlights

- \*\*True Non-Flammable Safety:\*\*** Certified non-flammable in both liquid and cured states to satisfy strict insurance and job-site safety codes.
- \*\*Massive Solids Content (≈30%):\*\*** Higher resin load ensures less soak-in, better coverage, and a stronger structural bond on duct liner and fiberglass.
- \*\*Methylene Chloride-Free:\*\*** A safer, high-performance solvent system that delivers quick tack time (1–4 minutes) without using banned chemicals.
- \*\*Low VOC Content:\*\*** Precision formulation with approximately 18% VOCs, compliant with current industrial fabrication standards.
- \*\*High Temperature Resistance:\*\*** Formulated for strong bonds that resist heat, cold, and moisture, maintaining flexibility after full cure.
- \*\*Visual Quality Control (QC):\*\*** Distinctive Green Color allows for instant visual confirmation of 100% coverage on the substrate.

### 2. Technical Data

Physical & Chemical Properties	
VOC Content	≈ 18%

Physical & Chemical Properties	
Solids Content	≈ 30% (High Solids)
Service Temperature Range	0°F to 120°F (approx. -18°C to 49°C)
Adhesive Base/Resin System	High Solids Synthetic Polymer Contact Adhesive
Color/Appearance	Distinctive Green Color
Solvent Type	Non-Flammable Chlorinated Solvent System (Contains Perchloroethylene)

Application & Performance Metrics	
Recommended Application Temperature	60°F–90°F (Substrate and adhesive)
Flash Time (Required Wait Time)	1–4 minutes (Open Time for contact bonding)
Cure Time (Full Strength)	5–6 minutes (Full cure for fabrication)
Cleanup Solvent	Universal Adhesive Remover (UAR-SC)
Estimated Peel Strength	High Strength / Immediate Grab

**\*\*MATERIAL INCOMPATIBILITY WARNING:\*\*** Do not use on Polystyrene, Styrofoam, EPS (Expanded Polystyrene), or XPS (Extruded Polystyrene) foam materials. Solvents in this product may attack or dissolve these materials.

### 3. Safety Data Sheet (SDS) Summary

Hazard Identification (GHS Classification)	
Signal Word	DANGER
Physical Hazards (H-codes)	H280 (Contains gas under pressure; May explode if heated)
Health Hazards Summary (H-codes)	Causes skin and eye irritation (H315/H319). Suspected of causing cancer (H351). May cause drowsiness or dizziness (H336).
Reproductive Toxicity Classification	Not Classified / Data Not Provided
California Prop 65 Warning	Contains Perchloroethylene (PCE), a chemical known to the State of California to cause cancer.

Handling, Storage, and First Aid	
Storage Temperature Limit	Max 120°F (49°C). Protect from direct sunlight.
Key Safe Handling Precautions	Use only outdoors or in a well-ventilated area with forced air movement. Do not pressurize, cut, or weld containers. Keep away from heat, sparks, and open flames.
First Aid (Ingestion)	If swallowed: Rinse mouth. DO NOT induce vomiting. Get medical advice or attention immediately.

## 4. Frequently Asked Questions (FAQs)

**What is the primary safety advantage of Mean Green Cylinders?**

They are certified Non-Flammable in both the liquid and cured states, satisfying strict insurance and job-site safety codes for commercial and industrial applications.

**What regulatory change does this adhesive address?**

It is a Methylene Chloride-Free solvent system, engineered as a strategic "Bridge Solution" to replace the outdated chemical technology eliminated by the EPA.

**How does the high solids content affect adhesive performance?**

The massive ≈30% Solids Content ensures less soak-in on porous materials like fiberglass and duct liner, providing better coverage, superior yield, and a stronger structural bond.

**What is the required working time for bonding insulation?**

The Quick Tack & Working Time is 1–4 minutes (Open Time). The adhesive should feel tacky to the touch and should not transfer to your finger before mating surfaces.

**What must be used to ensure the proper web spray pattern?**

For optimal results, you MUST use Tip 6501, as standard tips will not spray the heavy-bodied formula correctly, leading to poor coverage.

**What is the critical safety precaution when using this product?**

Ventilation is Mandatory because the product contains chlorinated solvents (Perchloroethylene). It must be used outdoors or in a well-ventilated area with forced air movement.