

Health	1
Flammability	0
Reactivity	0
Personal Protection	A

HMIS Ratings

# BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health	1
Flammability	0
Reactivity	1
Specific Hazard	

NFPA Ratings

## SECTION I

PRODUCT NAME <b>ELECTRIC MOTOR &amp; CONTACT CLEANER</b>		BOWMAN PART NO. <b>21945</b> (page 1 of 2)
SUPPLIER <b>Bowman Distribution, Barnes Group Inc.</b>	INFORMATION TELEPHONE NO. <b>(216) 391-7200</b>	24 HR. EMERGENCY TELEPHONE NO. <b>(303) 623-5716</b>
ADDRESS <b>850 East 72nd Street, Cleveland, OH 44103</b>		DATE <b>8/30/94</b>
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) <b>Consumer Commodity ORM-D</b>		
ADDITIONAL HAZARD CLASSES (as applicable) <b>NONE</b>		
CHEMICAL FAMILY <b>Mixture</b>	FORMULA <b>TM 4227</b>	

## SECTION II - HAZARDOUS INGREDIENTS

CAS REGISTRY NUMBER	%W	%V	CHEMICAL NAME(S)	OSHA PEL	ACGIH TLV	Other Limits	Listed as Carcinogen NTP, IARC or OSHA 1910(z) (specify)
76-13-1	90-100		Trichlorotrifluoro	1000ppm	1000ppm	1250ppm	NO
124-38-9	1-10		Carbon Dioxide	1000ppm	5000ppm	30000ppm	NO

\*ALL CHEMICAL COMPOUNDS MARKED WITH AN ASTERISK (\*) ARE TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1988 AND 40 CFR PART 372.

## SECTION III - PHYSICAL DATA

BOILING POINT <u>117.6</u> °F <u>47.6</u> °C	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) 1.5	MAXIMUM PERCENT VOC BY WEIGHT (%) % <u>0</u> Method used <u>Calculated</u>
VAPOR PRESSURE @ <u>70</u> °F <u>21.1</u> °C <input type="checkbox"/> mm Hg <input checked="" type="checkbox"/> psi	PERCENT VOLATILE BY VOLUME (%) 100	
VAPOR DENSITY (AIR = 1) 4.0	EVAPORATION RATE (BuAc = 1) cc14 = 1	>1
SOLUBILITY IN WATER NII	PH =	NA
APPEARANCE AND ODOR Clear liquid - slight ethereal odor.	PERCENT SOLID BY WEIGHT (%) 0	
		MATERIAL IS: LIQUID,GAS

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT <u>NONE</u> °F _____ °C	method used	FLAMMABLE LIMITS	LEL N.A.	UEL N.A.
EXTINGUISHING MEDIA <b>Waterfog, Foam, CO2 or Dry Chemical</b>				
SPECIAL FIRE FIGHTING PROCEDURES <b>Keep containers cool. Use equipment or shielding required to protect against bursting or venting containers.</b>				
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>At elevated temperatures (130°F or over) containers may burst, rupture, or vent.</b>				

## SECTION V - HEALTH HAZARD DATA

**HEALTH HAZARDS (ACUTE AND CHRONIC - INCLUDE TARGET ORGAN EFFECTS)**  
 May cause heart irregularities, unconsciousness, or death in high vapor concentrations. May cause defatting of skin. Absorption through skin is possible. Causes eye irritation. Long term exposure (years) to high concentrations of vapor may cause lung, liver, or kidney damage. The solvents listed above have been reported to affect central nervous system. Aspiration hazard if swallowed. Vapors may reduce oxygen available for breathing.

**CONDITIONS TO AVOID**  
 See Above.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**  
 Inhalation- Difficulty breathing, Heart Irregularity. Eyes- Blurred Vision, Skin Redness.

**PRIMARY ROUTES OF ENTRY** Inhalation  Skin Contact  Other (specify)

**EMERGENCY AND FIRST AID PROCEDURES**  
 Give oxygen. Do not give stimulants. Flush eyes and skin with water for 15 minutes.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**  
 Heart disease, Central nervous system disorders.

## SECTION VI - REACTIVITY DATA

<b>STABILITY</b>	UNSTABLE		CONDITIONS TO AVOID
	STABLE	<input checked="" type="checkbox"/>	High Temperatures.

**INCOMPATIBILITY (materials to avoid)**

Powdered Al, Be, Lithium, Titanium, and Reactive Metals

**HAZARDOUS DECOMPOSITION PRODUCTS:**

HCl, Chlorine, Phosgene, CO, CO<sub>2</sub>, NO<sub>x</sub>

<b>HAZARDOUS POLYMERIZATION</b>	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	<input checked="" type="checkbox"/>	None

## SECTION VII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
 Use absorbant sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

**WASTE DISPOSAL METHOD**  
 Dispose as hazardous waste in accordance with EPA RCRA.

**RCRA (Superfund) REPORTABLE QUANTITY (in lbs.)**  
 5000 lbs.

**RCRA HAZARDOUS WASTE NO. (40 CFR 261.33)**

F002

**VOLATILE ORGANIC COMPOUND (VOC)** as packaged, minus water)  Theoretical NA lb/gal (Estimate)  
 0.0%  Analytical NA lb/gal

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION (specify type)**  
 Self-contained breathing apparatus if above TLV limit.

<b>VENTILATION</b>	LOCAL EXHAUST (specify rate) Yes	SPECIAL None
	MECHANICAL (general) (specify rate) None	OTHER None

**PROTECTIVE GLOVES (specify type)** None required if spraying. **EYE PROTECTION (specify type)** Wear eye protection.

**OTHER PROTECTIVE EQUIPMENT**  
 Long pants and long sleeves.

## SECTION IX - SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**  
 Keep away from heat, sparks, open flames. Store at temperatures below 120°F

**OTHER PRECAUTIONS**  
 When using more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.