

Health	1
Flammability	0
Reactivity	0
Personal Protection	*

BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health	2
Flammability	1
Reactivity	0
Specific Hazard	

NFPA Ratings
NFPA 308 Rating: NE

SECTION I

HMIS Ratings *See Section VIII.		NFPA Ratings NFPA 308 Rating: NE	
PRODUCT NAME CUTTING TOOL COOLANT		BOWMAN PART NO. 19466 (page 1 of 2)	
SUPPLIER Bowman Distribution, Barnes Group Inc.		INFORMATION TELEPHONE NO. (216) 416-7200	
ADDRESS 1301 E. 9th St., Suite 700, Cleveland, Ohio 44114-1824		24 HR. EMERGENCY TELEPHONE NO. (303) 623-5716	
DATE 3/10/97		HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) Consumer Commodity, ORM-D	
ADDITIONAL HAZARD CLASSES (as applicable) None			
CHEMICAL FAMILY Mixture		FORMULA TM 4504	

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)
127-18-4	80-90		*Perchloroethylene	25 ppm	25 ppm	100 ppm	NTP, IARC
75-09-2	1-10		*Methylene Chloride	25 ppm	50 ppm	-	NTP, IARC
124-38-9	1-10		Carbon Dioxide	10000 ppm	5000 ppm	30000 ppm	NO
			The STEL for methylene chloride is 125 ppm (15 min. TWA); the action level is 12.5 ppm (8 hr. TWA)				

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 1980 AND 40 CFR PART 372.

SECTION III - PHYSICAL DATA

BOILING POINT 106 to 250 °F _____ °C	SPECIFIC GRAVITY (H ₂ O = 1) 1.8	MAXIMUM PERCENT VOC BY WEIGHT (%) % 86.7 Method used Calculated
VAPOR PRESSURE @ 70 °F _____ °C _____ mm Hg 85-90 psig	PERCENT VOLATILE BY VOLUME (%) N.A.	MELTING POINT N.A.
VAPOR DENSITY (AIR = 1) Heavier than Air	4.0	EVAPORATION RATE (Butyl Acetate = 1) >1
SOLUBILITY IN WATER NII	PH =	N.A.
APPEARANCE AND ODOR Clear/Ethereal		PERCENT SOLID BY WEIGHT (%) 0
		MATERIAL IS: LIQUID, GAS.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT None °F _____ °C	method used	FLAMMABLE LIMITS None	LEL	UEL
EXTINGUISHING MEDIA Use water fog, dry chemical or carbon dioxide.				
SPECIAL FIRE FIGHTING PROCEDURES Keep containers cool. Use equipment or shielding required to protect against bursting or venting containers.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Heated cans may burst.				
LABEL WARNING Contents under pressure.				

SECTION V - HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE AND CHRONIC - INCLUDE TARGET ORGAN EFFECTS)
 May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of skin. Effects are reversible. Long term exposure to high concentrations of vapor may cause lung, liver or kidney damage. The solvents listed have been reported to affect the central nervous system. Aspiration hazard if swallowed. Eye and skin irritant. May irritate respiratory tract. Deliberately concentrating and inhaling the vapor of the contents may be harmful or fatal. Methylene chloride will have an effect on the cardiovascular system. Perchloroethylene may cause spleen and brain damage. May cause cardiac abnormalities. Inhalation of high concentrations of methylene chloride vapor over long periods of time (years) has caused cancer in laboratory animals. Perchloroethylene is listed as a carcinogen per NTP and IARC.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
 Irritation: Difficulty in breathing. Skin - redness. Ingestion - vomiting.

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

EMERGENCY AND FIRST AID PROCEDURES Give Oxygen. Do not induce vomiting. Wash eyes and skin with water for 15 minutes. Get medical help. Never administer adrenalin following overexposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
 Heart Disease, Respiratory Disorders.

WARNING
 This product contains chemicals known to the State of California to cause cancer.

SECTION VI - REACTIVITY DATA

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

INCOMPATIBILITY (materials to avoid)
 Strong oxidizers, aluminum, strong alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS:
 In fire will decompose to carbon dioxide, water, hydrogen chloride, phosgene.

HAZARDOUS POLYMERIZATION	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 absorbent 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.

PERCLA (Superfund) REPORTABLE QUANTITY (in lbs.)
 100 lbs. (Perchloroethylene).

RCRA HAZARDOUS WASTE NO. (40 CFR 261.33)
 F002.

VOLATILE ORGANIC COMPOUND (VOC) as packaged, minus water		Theoretical	11.3	lb/gal
	86.7%	Analytical		lb/gal

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)
 Use NIOSH approved respirator if TLV limit is exceeded.

VENTILATION	LOCAL EXHAUST (specify rate)	SPECIAL
	MECHANICAL (general) (specify rate)	OTHER
	None	None

PROTECTIVE GLOVES (specify type) None required, if spraying.	EYE PROTECTION (specify type) Wear eye protection.
OTHER PROTECTIVE EQUIPMENT Long sleeves, long pants.	WORK/HYGIENIC PRACTICES Do not smoke while using. Wash hands after use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
 Keep away from heat, sparks, or 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.