

Health	3
Flammability	4
Reactivity	0
Personal Protection	*

BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health	2
Flammability	4
Reactivity	0
Specific Hazard	

HMIS Ratings

*See Section VIII.

SECTION I

NFPA Ratings

PRODUCT NAME 4-WAY (RUST & MOISTURE CONTROL)		BOWMAN PART NO. 21910 (page 1 of 2)
SUPPLIER Bowman Distribution, Barnes Group Inc.	INFORMATION TELEPHONE NO. (216) 391-7200	24 HR. EMERGENCY TELEPHONE NO. (303) 623-5716
ADDRESS 850 East 72nd Street, Cleveland, OH 44103		DATE 7/1/94
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) Consumer Commodity, ORM-D, UN 1954		
ADDITIONAL HAZARD CLASSES (as applicable) None		
CHEMICAL FAMILY Mixture	FORMULA TM 2045	

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)
8008-20-6	19		†Kerosene	400	N.E.	N.E.	NO
8052-41-3	54		††Mineral Spirits	100	100	N.E.	NO
111-76-2	0.5-1.0		*2-Butoxyethanol	25 (Skin)	25 (Skin)	N.E.	NO
74-98-6	19		Propane/Isobutane/n-Butane	1000	1000	Asphyxiant	NO
64742-63-8	5		Aliphatic Hydrocarbon Mixture	N.E.	5 mg/m ³	N.E.	NO
Unknown	0.5-1.0		Zinc Compound	N.E.	5 mg/m ³	N.E.	NO
Unknown	2		Corrosion Inhibitor	5 mg/m ³	5 mg/m ³	10 mg/m ³	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 1986 AND 40 CFR PART 372.

†Kerosene contains 0.5-1.5% xylene mix (1330-20-7), 0.5-1.5% naphthalene (91-20-3), and 0.4-1.2% biphenyl (92-52-4), which are subject to the reporting requirements of Section 313 of SARA Title III.

††Mineral spirits may contain 3.5% 1,2,4-trimethylbenzene (95-63-0), which is subject to the reporting requirements of Section 312 of SARA Title III.

SECTION III - PHYSICAL DATA

BOILING POINT -40 - 398 °F _____ °C	SPECIFIC GRAVITY (H ₂ O = 1) 0.7	MAXIMUM PERCENT VOC BY WEIGHT (%) % 92.7 Method used Calculated
VAPOR PRESSURE @ 70 °F _____ °C <input type="checkbox"/> mm Hg <input checked="" type="checkbox"/> 48 psi	PERCENT VOLATILE BY VOLUME (%) N.E.	
VAPOR DENSITY (AIR = 1) Heavier than air. 4.0	EVAPORATION RATE (Butyl Acetate = 1) <1	
SOLUBILITY IN WATER Nil.	PH = N.A.	PERCENT SOLID BY WEIGHT (%) N.E.
APPEARANCE AND ODOR Clear/solvent odor.	MATERIAL IS: LIQUID, GAS.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT -40 °F _____ °C	method used TCC	FLAMMABLE LIMITS	LEL 1.8	UEL 12.0
EXTINGUISHING MEDIA 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 containers may burst.				

21910 (page 1 of 2)

N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined

1

SECTION V - HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE AND CHRONIC - INCLUDE TARGET ORGAN EFFECTS) May cause dizziness or narcosis in high vapor concentrations and will cause defatting of skin. Effects are reversible. Long-term exposure (years) to high concentrations of vapor may cause lung, liver, or kidney damage. The solvents listed have been reported to affect the central nervous system. Eye and skin irritant. Aspiration hazard, if swallowed. 2-butoxyethanol may cause possible corneal injury, may be absorbed through the skin with toxic effects, and may cause blood abnormalities. May irritate respiratory tract. Has been found to cause anemia, testis, and spleen damage.	
CONDITIONS TO AVOID See Above.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE Inhalation: Difficulty in breathing. Skin: Redness. Ingestion: Vomiting.	
PRIMARY ROUTES OF ENTRY Inhalation <input checked="" type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Other (specify) Ingestion	
EMERGENCY AND FIRST AID PROCEDURES Give Oxygen. Do not induce vomiting. Gastric lavage. Wash eyes and skin with water.	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Heart disease, respiratory disorders.	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	High Temperatures.
INCOMPATIBILITY (materials to avoid) Incompatible with strong oxidizers.			
HAZARDOUS DECOMPOSITION PRODUCTS: In fire will decompose to carbon dioxide, water, sulfur compounds, and calcium oxide.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	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.	
CERCLA (Superfund) REPORTABLE QUANTITY (in lbs.) N.E.	
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33) D001	
VOLATILE ORGANIC COMPOUND (VOC) as packaged, minus water)	<input checked="" type="checkbox"/> Theoretical <u>5.8</u> lb/gal <input type="checkbox"/> Analytical _____ lb/gal

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type) Self-contained breathing apparatus, if above TLV limit exceeding.		
VENTILATION	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 sleeves, long pants.		WORK/HYGIENIC PRACTICES Do not smoke while using. Wash hands after using.

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 spraying more than one half can continuously or more than one can consecutively, use NIOSH-approved respirator.	