

Health	2
Flammability	4
Reactivity	0
Personal Protection	A

HMIS Ratings

BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health	2
Flammability	4
Reactivity	0
Specific Hazard	

NFPA Ratings

SECTION I

PRODUCT NAME LEAK DETECTING BATTERY CLEANER		BOWMAN PART NO. 21942 (page 1 of 2)
SUPPLIER Bowman Distribution, Barnes Group Inc.		EMERGENCY TELEPHONE NO. (216) 391-7200
ADDRESS 850 East 72nd Street, Cleveland, OH 44103		DATE 1/08/91
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-2152	

SECTION II - HAZARDOUS INGREDIENTS

CAS REGISTRY NUMBER	%W	%V	CHEMICAL NAME(S)	OSHA PEL	ACGIH TLV	STEL Other Limits	Listed as Carcinogen NTP, IARC or OSHA 1910(z) (specify)
111-76-2	<5		*2-Butoxyethanol	25	25	N.E.	No
102-71-6	<5		Triethanolamine	N.E.	N.E.	N.E.	No
74-98-6	7		Propane/Isobutane	1000	1000	Asphyxiant	No
	>83		Non-Hazardous	N.A.	N.A.	N.A.	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.

SECTION III - PHYSICAL DATA

BOILING POINT -40°F - 212 °F _____ °C	SPECIFIC GRAVITY (H ₂ O = 1)	0.9	
VAPOR PRESSURE 45 @ 70 °F _____ °C <input type="checkbox"/> mm Hg <input checked="" type="checkbox"/> psi	PERCENT VOLATILE BY VOLUME (%)	100	PERCENT SOLID BY WEIGHT (%) N.A.
VAPOR DENSITY (AIR = 1) Heavier than air	4.0	EVAPORATION RATE (= 1) Butyl Acetate	<1
SOLUBILITY IN WATER	soluble	PH =	N.A.
APPEARANCE AND ODOR Yellow/Solvent Odor	MATERIAL IS: Liquid & Gas		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT - 40 °F _____ °C	method used T.C.C.	FLAMMABLE LIMITS	LEL 1.8	UEL 12.0
EXTINGUISHING MEDIA Use water fog, dry chemical or carbon dioxide.				
SPECIAL FIRE FIGHTING PROCEDURES Keep containers cool. Use equipment or shielding required to protect personnel against bursting or venting containers.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Heated cans may burst.				

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 (years) to vapor may cause lung, liver or kidney damage. The solvents listed have been reported to affect the central nervous system.	
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	<input checked="" type="checkbox"/>	High temperatures
INCOMPATIBILITY (materials to avoid) The above solvents are incompatible with strong oxidizers.			
HAZARDOUS DECOMPOSITION PRODUCTS: In fire will decompose to carbon dioxide and water.			
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	
CERCLA (Superfund) REPORTABLE QUANTITY (in lbs.) N.E.	
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33) D-001	
VOLATILE ORGANIC COMPOUND (VOC) as packaged, minus water)	<input checked="" type="checkbox"/> Theoretical <u>4.4</u> lb/gal <input type="checkbox"/> Analytical _____ lb/gal
<20%	

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 and long pants		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep away from heat, sparks or open flame. Store at temperatures below 120°F.	
OTHER PRECAUTIONS None	