Health	2
Flammability	4
Reactivity	0
Personal Protection	A

BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health 2
Flammability 4
Reactivity 0
Specific Hazard

NFPA Ratings SECTION I PRODUCT NAME RUST PENETRANT BOWMAN PART NO. 21901 (page 1 of 2) EMERGENCY TELEPHONE NO. Bowman Distribution, Barnes Group Inc. (216) 391-7200 ADDRESS 850 East 72nd Street, Cleveland, OH 44103 DATE 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 FORMULA Mixture TM-2350

SECTION II - HAZARDOUS INGREDIENTS

CAS				TOTTEDI	LITTO		
REGISTRY NUMBER	%W	%V	CHEMICAL NAME(S)	OSHA PEL	ACGIH	STEL Other Limits	Listed as Carcinogen NTP, IARC or OSHA
8008-20-6	57		\$ Kerosene	400		Limits	1910(z) (specify)
64742-88-7	16		@ Mineral Spirits	100	100	N.E.	No
Unknown	8			500	100	N.E.	No
74-98-6	19		OII	N.E.	5mg/m³ oil mist	N.E.	No
74-30-0	19		Propane/Isobutane	1000	1000	asphyxiant	
					1000	aspriyxiant	No
\$ This product	contains	0.5%-1	.5% Xylene mix (CAS# 1330-20-7), 0.5%-1.5%				

92-52-4) which are subject to the reporting requirements of Section 313 of SARA Title IV.

@ Mineral Spirits may contain 3.5% 1,2,4 Trimethylbenzene (CAS# 95-63-0) which is subject to the reporting requirements of Section 313 of SARA Title IV.

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

Clear/Solvent Odor				MATERIAL IS: Liquid & Gas	1
APPEARANCE AND ODOR			N.A.		
SOLUBILITY IN WATER	NIL	PH=			
Heavier than air	4.0	EVAPORATION RATE (= 1) Butyl Acetate	<1	or still that is	
@ 70 °F °C mm Hg VAPOR DENSITY (AIR = 1)	XX psi		N.E.	PERCENT SOLID BY WEIGHT (%)	N.E.
VAPOR PRESSURE 50		PERCENT VOLATILE BY VOLUME (%)			
BOILING POINT -40°F — 525°F	°C	SPECIFIC GRAVITY (H ₂ O = 1)	0.7		T -

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

-40 °F °C method used	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA T.C.C.		1.8	12.0
Jse water fog, dry chemical or carbon dioxide.			
PECIAL FIRE FIGHTING PROCEDURES erosol cans may rupture when heated.	TO THE PARTY OF TH		
rupture when heated.	A STATE OF THE PARTY OF THE PAR		
MUCHAL PIOS			
NUSUAL FIRE AND EXPLOSION HAZARDS leated cans may burst.			
ours may burst.			

21901 (page 1 of 2)

FLASH POINT

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

SECTION V - HEALTH HAZARD DATA

	or may cau	se lung	, liver or kid	ney da	CLUDE TARGET ORGAN EFFECTION OF THE CONTROL OF THE	TS) tling of skin. Effects are reversible. Long term exposured to affect the central nervous system.
CONDITION See above	NS TO AVOI	D	Marin .			
PRIMARY R	OUTES OF	ENTRY	"" idiation	X X	Ingestion-vomiting. Skin Contact X Other (sp	necifu)
EMERGENC	Y AND FIRE	ST AID I	PROCEDURE	S	- Cartor (of	
Give oxyger	n-do not ind	luce voi	miting. Gast	ric lav	age. Wash eyes and skin with v	vater
	ONDITIONS	1000				(Bull-14) 42 6 H
	Lucia			SE	CTION VI - REACTIVI	TVDATA
STABILITY	UNSTABL	E .	CONDITIO	VS TO	AVOID	I Y DATA
THE IT	STABLE	х		_	man and the second particular and	The state of the s
NCOMPATIB	ILITY (mate	riola ta	High temp			No.
THE SDOVE SC	Divents are	Incomp	odible solat	trong	oxidizers.	
			PRODUCTS dioxide and			
HAZARDOUS		MAY O	CCUR	wate	CONDITIONS TO AVOID	Ling Links, hill are property of the control of the
POLYMERIZA	ATION				CONDITIONS TO AVOID	
		WILLN	OT OCCUR	X	None	A STATE OF THE PARTY OF THE PAR
ASTE DISPO	SAL METH	7375				PROCEDURES use as hazardous waste.
Spose as ha	SAL METH zardous wa	OD aste in a	ccordance v	vith EF	A RCRA	se as hazardous waste.
ASTE DISPO spose as ha EHCLA (Supe E.	SAL METH zardous wa erlund) REP	OD aste in a	ccordance v	vith EF	A RCRA	se as hazardous waste.
SPOSE AS HA ERCLA (Supe E. CRA HAZARI ODI	DOUS WAS	OD aste in a OHTABI	E QUANTIT	Vith EF	A RCRA	se as hazardous waste.
ASTE DISPO spose as ha EHCLA (Supe E.	DOUS WAS	OD aste in a OHTABI	LE QUANTITY (40 CFR 261)	Y (in lb	S.) eoretical 5.2 lb/gal	se as hazardous waste.
SPOSE AS HA ERCLA (Supe E. CRA HAZARI ODI	DOUS WAS	OHTABLE TE NO. MPOUND >90%	LE QUANTITY (40 CFR 261.	Y (in lb	S.) eoretical 5.2 Ib/gal alytical Ib/gal	
ASTE DISPO spose as ha ERCLA (Supe E. CRA HAZARI 001 DLATILE ORG packaged, m	DSAL METHI zardous wa erfund) REPO DOUS WAS GANIC COM ninus water)	OD aste in a ORTABL TE NO. MPOUND >909	E QUANTITY (40 CFR 261)	Y (in lb	s.) eoretical 5.2 Ib/gal alytical Ib/gal	
ASTE DISPO spose as ha ERCLA (Supe E. CRA HAZARI 001 DLATILE ORG packaged, m	DOSAL METHOZARDOUS WAS COMMISSION OF THE PROTECTION OF T	OD aste in a OHTABLE TE NO. MPOUND >909 SE ON (spe	E QUANTIT (40 CFR 261) (VOC) (5) (CTION VICIBLE OF THE PROPERTY OF THE PROPERT	Y (in lb 33) Th	S.) eoretical 5.2 Ib/gal alytical Ib/gal	
ASTE DISPO spose as ha ERCLA (Supe E. CRA HAZARI 001 DLATILE ORG packaged, m	DOSAL METHICZARDOUS WAS PROTECTION BROWN WAS PROTECTION BROWN WAS PROTECTED BROWN WAS	OD aste in a OFTABLE TE NO. MPOUND >90% SE ON (speepperatu	E QUANTITY (40 CFR 261. (40 CFR 261. (VOC) (VOC) (VOC) (VOC) (Specify type) (Specify rate (specify rate)	Y (in lb	eoretical 5.2 Ib/gal alytical Ib/gal SPECIAL PROTECTION t exceeding.	ON INFORMATION
ASTE DISPO Spose as ha ERCLA (Supe E. CRA HAZARI 001 DLATILE ORG packaged, re SPIRATORY f contained i	PROTECTION AND AND AND AND AND AND AND AND AND AN	OD aste in a OFTABLE TE NO. MPOUND >909 SE ON (spe pperatu	CCOORDING (40 CFR 261. (40 CFR 261. (40 CFR 261. (40 CFR 261. (50 CTION V Cify type) s if above Times (specify rate oneral) (spe	Y (in lb	eoretical 5.2 Ib/gal alytical Ib/gal SPECIAL PROTECTION t exceeding.	ON INFORMATION SPECIAL None
ASTE DISPOSE AS has been as his been as has been as has been as his been as hi	DOUS WAS GANIC COMMINUS WATER THE PROTECTION TO STANK THE PROTECTION THE PROTECTION TO STANK THE PROTECTION TO STANK THE PROTECTION THE PROTECTION TO STANK THE PROTECTION THE PROTECTION TO STANK THE PROTECTION THE PROTE	OD oste in a or other particular of the contract of the contra	CCOORDING (40 CFR 261. (40 CFR 261. (40 CFR 261. (40 CFR 261. (50 CTION V Cify type) s if above Times (specify rate oneral) (spe	Y (in lb	eoretical 5.2 lb/gal alytical lb/gal SPECIAL PROTECTION t exceeding.	ON INFORMATION SPECIAL None OTHER
ASTE DISPO Spose as ha PRCLA (Super E.) CRA HAZARI O01 DLATILE ORO packaged, n SPIRATORY f contained i NTILATION OTECTIVE GI e required if	PROTECTION WAS TO SAL METHODOUS WAS TO SANIC COMMINION WATER TO SANIC COMMINION WATER TO SANIC COMMINION WAS TO SA	OD oste in a other in	CCOORDING (40 CFR 261. (40 CFR 261. (40 CFR 261. (40 CFR 261. (50 CTION V Cify type) s if above Times (specify rate oneral) (spe	Y (in lb	eoretical 5.2 Ib/gal alytical Ib/gal SPECIAL PROTECTION t exceeding.	ON INFORMATION SPECIAL None OTHER
ASTE DISPOSE AS NA ASSETTANT DISPOSE AS NA ASSE	PROTECTION MECHANIC COMPANIES OF STREET OF STR	OD siste in a OHTABLE TE NO. MPOUND SE ON (speepperatus XHAUST CAL (ge cify type PMENT is	CCTION V Cify type) s if above Ti (specify rate ineral) (specify)	Y (in lb Y (in lb Art LV limi	eoretical 5.2 lb/gal alytical lb/gal SPECIAL PROTECTION t exceeding.	ON INFORMATION SPECIAL NONE OTHER None Cify type)
ASTE DISPOSE AS THE D	PROTECTION WAS A CONTROL OF THE PROTECTION OF TH	OD ste in a OHTABI OHTABI TE NO. APPOUND SE ON (spe pper atu XHAUS) CAL (ge cify type PMENT is	COORDINATION (40 CFR 261. (40 CFR 261. (VOC) (7) (CTION Vocisity type) s if above Till (specify rate ineral) (specify rate ineral)	Y (in lb) Y (in lb) Arrivall LV limit Tiol	eoretical 5.2 Ib/gal alytical Ib/gal SPECIAL PROTECTION (spewear eye protection NIX - SPECIAL PRODECTION (spewear eye protection	ON INFORMATION SPECIAL NONE OTHER None Cify type)
ASTE DISPOSE AS THE D	PROTECTION COAL ENTRY PROTECTION PROTEC	OD ste in a OHTABI OHTABI TE NO. APPOUND SE ON (spe pper atu XHAUS) CAL (ge cify type PMENT is	COORDINATION (40 CFR 261. (40 CFR 261. (VOC) (7) (CTION Vocisity type) s if above Till (specify rate ineral) (specify rate ineral)	Y (in lb) Y (in lb) Arrivall LV limit Tiol	eoretical 5.2 lb/gal alytical lb/gal SPECIAL PROTECTION t exceeding.	ON INFORMATION SPECIAL NONE OTHER None Cify type)