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Barnes Distribution

Material Safety Data Sheet

MSDS Form No. : 040162
Item No. : BD1069, BD1069-1

MATERIAL SAFETY DATA SHEET

ISSUING DATE: 19-FEB-2013

REVISION DATE: 19-FEB-2013

VERSION: 1

------1. PRODUCT AND COMPANY IDENTIFICATION ------

PRODUCT NAME: BD1069 BATTERY TERMINAL PROTECTOR
PRODUCT CODE: F01551
PRODUCT TYPE: EXTREMELY FLAMMABLE AEROSOL
RECOMMENDED USE: BATTERY PROTECTANT

MANUFACTURED FOR:
BARNES DISTRIBUTION
1301 E. 9TH STREET, SUITE 700
CLEVELAND, OH 44114-1824

MANUFACTURED BY:
AMERICAN JETWAY CORPORATION
34136 MYRTLE STREET
WAYNE, MI 48184-0126

CHEMICAL EMERGENCY PHONE NUMBER:
303-623-5716 ROCKY MOUNTAIN POISON CONTROL 24 HR

------2. HAZARDS IDENTIFICATION ------

DANGER!

EMERGENCY OVERVIEW:
EXTREMELY FLAMMABLE AEROSOL

CONTENTS UNDER PRESSURE

IRRITATING TO RESPIRATORY SYSTEM

IRRITATING TO SKIN

IRRITATING TO EYES

**INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING CONTENTS MAY
BE HARMFUL OR FATAL**

APPEARANCE: OPAQUE

PHYSICAL STATE: AEROSOL

ODOR: SOLVENT

**OSHA REGULATORY STATUS:
THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)**

POTENTIAL HEALTH EFFECTS:

PRINCIPLE ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

ACUTE TOXICITY:

EYES: IRRITATING TO EYES.

**SKIN:
IRRITATING TO SKIN. PROLONGED SKIN CONTACT MAY DEFAT THE SKIN AND PRODUCE
DERMATITIS. MAY CAUSE FROSTBITE.**

**INHALATION:
IRRITATING TO RESPIRATORY SYSTEM. AVOID BREATHING VAPORS OR MISTS. SYMPTOMS
OF OVEREXPOSURE ARE DIZZINESS, HEADACHE, TIREDNESS, NAUSEA, UNCONSCIOUSNESS,
CESSATION OF BREATHING.**

**INGESTION:
NOT AN EXPECTED ROUTE OF EXPOSURE. POTENTIAL FOR ASPIRATION IF SWALLOWED.
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.**

CHRONIC EFFECTS: NO INFORMATION AVAILABLE.

**AGGRAVATED MEDICAL CONDITIONS:
CENTRAL NERVOUS SYSTEM. PREEXISTING EYE DISORDERS. SKIN DISORDERS. RESPIRATORY DISORDERS. PERIPHERAL NERVOUS SYSTEM (PNS).**

**INTERACTIONS WITH OTHER CHEMICALS:
USE OF ALCOHOLIC BEVERAGES MAY ENHANCE TOXIC EFFECTS**

ENVIRONMENTAL HAZARD: SEE SECTION 12 FOR ADDITIONAL ECOLOGICAL INFORMATION

------3. COMPOSITION/INFORMATION ON INGREDIENTS ------

CAS # 110-54-3, HEXANE, MAY BE SUBSTITUTED FOR CAS # 64742-49-0, COMMERCIAL HEXANES.

CHEMICAL NAME	CAS-NO	WEIGHT %
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	7-13
XYLENE	1330-20-7	7-13
NAPHTHENIC OIL, SEVERELY HYDROTREATED	64742-52-5	3-7
HEXANE	110-54-3	1-5
ETHYL BENZENE	100-41-4	1-5
HYDROTREATED HEAVY NAPHTHENIC	64742-01-4	1-5

------4. FIRST AID MEASURES ------

GENERAL ADVICE:
SHOW THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

EYE CONTACT:
IMMEDIATELY FLUSH WITH PLENTY OF WATER. AFTER INITIAL FLUSHING, REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES.

SKIN CONTACT:
WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. IF SKIN IRRITATION PERSISTS, CALL A PHYSICIAN.

INHALATION:
MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.

NOTES TO PHYSICIAN: NO INFORMATION AVAILABLE.

------5. FIRE-FIGHTING MEASURES ------

FLAMMABLE PROPERTIES: EXTREMELY FLAMMABLE AEROSOL.

FLASH POINT: -141 DEG. F / -96.4 DEG. C
METHOD: BASED ON PROPELLANT

SUITABLE EXTINGUISHING MEDIA:
FOAM. DRY CHEMICAL. ALCOHOL-RESISTANT FOAM. CARBON DIOXIDE (CO2).

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES.

EXPLOSION DATA:

SENSITIVITY TO STATIC DISCHARGE: NO INFORMATION AVAILABLE.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:
CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT (FIRE). KEEP CONTAINERS
AND SURROUNDING AREAS COOL WITH WATER SPRAY.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND,
MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

NFPA:

HEALTH HAZARD	**2**
FLAMMABILITY	**4**
STABILITY	**0**

PHYSICAL AND CHEMICAL HAZARDS

HMIS:

HEALTH HAZARD	**2***
FLAMMABILITY	**2**

PHYSICAL HAZARD
PERSONAL PROTECTION B

*** CHRONIC HEALTH HAZARD REPEATED OR PROLONGED EXPOSURE MAY CAUSE CENTRAL**
NERVOUS SYSTEM DAMAGE

------6. ACCIDENTAL RELEASE MEASURES ------

PERSONAL PRECAUTIONS:
ENSURE ADEQUATE VENTILATION. FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS:
DO NOT FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEM.

METHODS FOR CONTAINMENT:
PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEANING UP:
USE A NON-COMBUSTIBLE MATERIAL LIKE VERMICULITE, SAND OR EARTH TO SOAK

UP
THE PRODUCT AND PLACE INTO A CONTAINER FOR LATER DISPOSAL.

------7. HANDLING AND STORAGE ------

ADVICE ON SAFE HANDLING:
AVOID CONTACT WITH EYES. AVOID BREATHING VAPORS OR MISTS. CONTENTS UNDER
PRESSURE. DO NOT PUNCTURE OR INCINERATE CANS. DO NOT STICK PIN OR ANY OTHER
SHARP OBJECT INTO OPENING ON TOP OF CAN.

TECHNICAL MEASURES/STORAGE CONDITIONS:
KEEP OUT OF THE REACH OF CHILDREN. INCOMPATIBLE WITH OXIDIZING AGENTS.

AEROSOL LEVEL: 1

------8. EXPOSURE CONTROLS/PERSONAL PROTECTION ------

EXPOSURE GUIDELINES:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
XYLENE 1330-20-7	STEL: 150 PPM TWA: 100 PPM	TWA: 100 PPM TWA: 435 MG/M3 (VACATED) TWA: 100 PPM (VACATED) TWA: 435 MG/M3 (VACATED) STEL: 150 PPM (VACATED) STEL: 655 MG/M3	
HEXANE 110-54-3	TWA: 50 PPM S*	TWA: 500 PPM TWA: 1800 MG/M3 (VACATED) TWA: 50 PPM (VACATED) TWA: 180 MG/M3	IDLH: 1100 PPM TWA: 50 PPM TWA: 180 MG/M3
ETHYL BENZENE 100-41-4	TWA: 20 PPM	TWA: 100 PPM TWA: 435 MG/M3 (VACATED) TWA: 100 PPM (VACATED) TWA: 435 MG/M3 (VACATED) STEL: 125 PPM (VACATED) STEL: 545 MG/M3	IDLH: 800 PPM TWA: 100 PPM TWA: 435 MG/M3 STEL: 125 PPM STEL: 545 MG/M3
TOLUENE	TWA: 20 PPM	TWA: 200 PPM	IDLH: 500 PPM

108-88-3		(VACATED) TWA: 100 PPM	TWA: 100 PPM
		(VACATED) TWA: 375 MG/M3	TWA: 375 MG/M3
		(VACATED) STEL: 150 PPM	STEL: 150 PPM
		(VACATED) STEL: 560 MG/M3	STEL: 560 MG/M3
		CEILING: 300 PPM	
BENZENE	STEL: 2.5 PPM	TWA:	IDLH: 500 PPM
71-43-2	TWA: 0.5 PPM	10 PPM APPLIES TO INDUSTRY	TWA: 0.1 PPM
	S*	SEGMENTS EXEMPT FROM THE BENZENE STANDARD AT 29 CFR 1910.1028 TWA: 1 PPM (VACATED) TWA: 10 PPM UNLESS SPECIFIED IN 1910.1028 (VACATED) STEL: 50 PPM 10 MIN UNLESS SPECIFIED IN 1910.1028 (VACATED) CEILING: 25 PPM UNLESS SPECIFIED IN 1910.1028 CEILING: 25 PPM STEL: 5 PPM SEE 29 CFR 1910.1028	STEL: 1 PPM

OTHER EXPOSURE GUIDELINES:
VACATED LIMITS REVOKED BY THE COURT OF APPEALS DECISION IN AFL-CIO V. OSHA,
965 F.2D 962 (11TH CIR., 1992).

ENGINEERING MEASURES: ENSURE ADEQUATE VENTILATION.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: SAFETY GLASSES WITH SIDE-SHIELDS.

SKIN AND BODY PROTECTION:
WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

RESPIRATORY PROTECTION:
IF EXPOSURE LIMITS ARE EXCEEDED OR IRRITATION IS EXPERIENCED, NIOSH/MSHA
APPROVED RESPIRATORY PROTECTION SHOULD BE WORN.

HYGIENE MEASURES:
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. GENERAL INDUSTRIAL

HYGIENE PRACTICE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH HANDS
AND FACE BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT. AVOID
BREATHING VAPORS, MIST OR GAS.

------9. PHYSICAL AND CHEMICAL PROPERTIES ------

PHYSICAL STATE: AEROSOL

APPEARANCE: OPAQUE

ODOR: SOLVENT

COLOR: PINK

PROPERTY	VALUES	REMARKS – METHODS
PH	9.75	
BOILING POINT/BOILING RANGE		NO INFORMATION AVAILABLE
FLASH POINT	–96.4 DEG. C / –141 DEG. F	BASED ON PROPELLANT
FLAMMABILITY LIMITS IN AIR UPPER FLAMMABILITY LIMIT LOWER FLAMMABILITY LIMIT		NO DATA AVAILABLE
VAPOR PRESSURE		NOT DETERMINED
VAPOR DENSITY		HEAVIER THAN AIR
SPECIFIC GRAVITY	1.31	NO INFORMATION AVAILABLE
WATER SOLUBILITY		NO INFORMATION AVAILABLE
VISCOSITY, KINEMATIC		NO INFORMATION AVAILABLE
FLAME EXTENSION W/O EXT TUBE FLAME EXTENSION WITH EXT TUBE	18 NA	
FLASH BACK W/O EXT TUBE FLASH BACK WITH EXT TUBE	1 NA	
VOC CONTENT(%)	30.16	

------10. STABILITY AND REACTIVITY ------

STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

INCOMPATIBLE PRODUCTS: STRONG OXIDIZING AGENTS.

CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS. STRONG BASES.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES. FUMES.

HAZARDOUS REACTIONS: NO INFORMATION AVAILABLE.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

------11. TOXICOLOGICAL INFORMATION ------

ACUTE TOXICITY:

PRODUCT INFORMATION:
CAUSES SKIN, EYE AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED.

CHEMICAL NAME	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
XYLENE	4300 MG/KG (RAT)	1700 MG/KG (RABBIT)	5000 PPM (RAT) 4 H 47635 MG/L (RAT) 4 H
NAPHTHENIC OIL, SEVERELY HYDROTREATED	5000 MG/KG (RAT)	5000 MG/KG (RABBIT)	5 MG/L (RAT) 4 H
HEXANE	25 G/KG (RAT)	3000 MG/KG (RABBIT)	48000 PPM (RAT) 4 H
ETHYL BENZENE	3500 MG/KG (RAT)	15354 MG/KG (RABBIT)	17.2 MG/L (RAT) 4 H
HYDROTREATED HEAVY NAPHTHENIC	5000 MG/KG (RAT)	2000 MG/KG (RABBIT)	2.18 MG/L (RAT) 4 H

CHRONIC TOXICITY:

CARCINOGENICITY:
THE TABLE BELOW INDICATES WHETHER EACH AGENCY HAS EVALUATED A LISTED INGREDIENT AS A CARCINOGEN.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
XYLENE		GROUP 3		
ETHYL BENZENE	A3	GROUP 2B		X
HYDROTREATED HEAVY NAPHTHENIC	A2			X

ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS):
A2 - SUSPECTED HUMAN CARCINOGEN
A3 - ANIMAL CARCINOGEN

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):
GROUP 2B - POSSIBLY CARCINOGENIC TO HUMANS
GROUP 3 - NOT CLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS

OSHA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION):
X - PRESENT

TARGET ORGAN EFFECTS:
CENTRAL NERVOUS SYSTEM. EYES. PERIPHERAL NERVOUS SYSTEM (PNS). RESPIRATORY
SYSTEM. SKIN.

------12. ECOLOGICAL INFORMATION ------

ECOTOXICITY:
THE ENVIRONMENTAL IMPACT OF THIS PRODUCT HAS NOT BEEN FULLY INVESTIGATED.

------13. DISPOSAL CONSIDERATIONS ------

WASTE DISPOSAL METHODS:
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

CONTAMINATED PACKAGING: DO NOT RE-USE EMPTY CONTAINERS.

------14. TRANSPORT INFORMATION ------

DOT GROUND: CONSUMER COMMODITY ORM-D OR LIMITED QUANTITY

IATA: UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

IMDG: UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

------15. REGULATORY INFORMATION ------

INTERNATIONAL INVENTORIES:
TSCA: TSCA
DSL:
NDSL: COMPLIES
EINECS:
ELINCS:
ENCS:
IECSC:
KECL:
PICCS:
AICS:

CHEMICAL NAME	TSCA	DSL	NDSL	EINECS	ELINCS
PROPANE/ISOBUTANE/ N-BUTANE	PRESENT	X	NOT LISTED	270-705-8	NOT LISTED
XYLENE	PRESENT	X	NOT LISTED	215-535-7	NOT LISTED
NAPHTHENIC OIL, SEVERELY HYDROTREATED	PRESENT	X	NOT LISTED	265-155-0	NOT LISTED
HEXANE	PRESENT	X	NOT LISTED	203-777-6	NOT LISTED
ETHYL BENZENE	T	X	NOT LISTED	202-849-4	NOT LISTED
HYDROTREATED HEAVY NAPHTHENIC	PRESENT	X	NOT LISTED	265-101-6	NOT LISTED

CHEMICAL NAME	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTANE/ N-BUTANE	NOT LISTED	X	KE-28192	X	X
XYLENE	PRESENT	X	KE-35427	X	X
NAPHTHENIC OIL, SEVERELY HYDROTREATED	PRESENT	X	KE-12543	X	X
HEXANE	PRESENT	X	KE-18626	X	X

ETHYL BENZENE	PRESENT	X	KE-13532	X
X				
HYDROTREATED HEAVY NAPHTHENIC	NOT LISTED	X	KE-30124	X
X				

TSCA: UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY

DSL/NDSL: CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

EINECS/ELINCS:
EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES/EU LIST OF
NOTIFIED CHEMICAL SUBSTANCES

ENCS: JAPAN EXISTING AND NEW CHEMICAL SUBSTANCES

IECSC: CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES

KECL: KOREAN EXISTING AND EVALUATED CHEMICAL SUBSTANCES

PICCS: PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

AICS: AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES

U.S. FEDERAL REGULATIONS:

SARA 313:

SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION
ACT OF 1986 (SARA). THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS WHICH ARE
SUBJECT TO THE REPORTING REQUIREMENTS OF THE ACT AND TITLE 40 OF THE CODE
OF FEDERAL REGULATIONS, PART 372:

CHEMICAL NAME	SARA 313 - THRESHOLD VALUES %
XYLENE	1.0
HEXANE	1.0
ETHYL BENZENE	0.1

SARA 311/312 HAZARD CATEGORIES:
ACUTE HEALTH HAZARD: YES
CHRONIC HEALTH HAZARD: YES
FIRE HAZARD: YES
SUDDEN RELEASE OF PRESSURE HAZARD: NO

REACTIVE HAZARD: NO

U.S. STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT CONTAINS THE FOLLOWING PROPOSITION 65 CHEMICALS:

CHEMICAL NAME	CALIFORNIA PROP. 65
ETHYL BENZENE	CARCINOGEN
TOLUENE	DEVELOPMENTAL FEMALE REPRODUCTIVE
BENZENE	CARCINOGEN DEVELOPMENTAL MALE REPRODUCTIVE

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME	MASSACHUSETTS	NEW JERSEY	PENNSYLVANIA	ILLINOIS	RHODE ISLAND
XYLENE	X	X	X	X	
HEXANE	X	X	X	X	
ORGANOPHOSPATE ESTER, ZINC SALT		X	X		
TOLUENE	X	X	X	X	
AMMONIA	X	X	X		

INTERNATIONAL REGULATIONS:

CHEMICAL NAME	CARCINOGEN STATUS	EXPOSURE LIMITS
XYLENE		MEXICO: TWA: 100 PPM
		MEXICO: TWA: 435 MG/M3
		MEXICO: STEL: 150 PPM
		MEXICO: STEL: 655 MG/M3
HEXANE		MEXICO: TWA: 50 PPM

	MEXICO: TWA: 176 MG/M3
ETHYL BENZENE	MEXICO: TWA: 100 PPM
	MEXICO: TWA: 435 MG/M3
	MEXICO: STEL: 125 PPM
	MEXICO: STEL: 545 MG/M3

CANADA:
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF
THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

------16. OTHER INFORMATION ------

PREPARED BY:
AMERICAN JETWAY
34136 MYRTLE STREET
WAYNE, MI 48184

ISSUING DATE: 19-FEB-2013

REVISION DATE: 19-FEB-2013

REVISION NOTE: NO INFORMATION AVAILABLE.

DISCLAIMER:
THE INFORMATION PROVIDED ON THIS MSDS IS CORRECT TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN
IS DESIGNED ONLY AS A GUIDE FOR SAFE HANDLING, USE, PROCESSING, STORAGE,
TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED AS A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN
COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS, UNLESS SPECIFIED IN
THE TEXT.

F01551 - BD1069 BATTERY TERMINAL PROT.