



Barnes Distribution

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**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 PPM 110-54-3 PPM MG/M3	TWA: 50 PPM S*	TWA: 500 PPM TWA: 1800 MG/M3 (VACATED) TWA: 50 PPM (VACATED) TWA: 180 MG/M3	IDLH: 1100 TWA: 50 TWA: 180
ETHYL BENZENE PPM 100-41-4 PPM MG/M3 PPM MG/M3	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 TWA: 100 TWA: 435 STEL: 125 STEL: 545
TOLUENE PPM	TWA: 20 PPM	TWA: 200 PPM	IDLH: 500

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			
PPM	S*	SEGMENTS EXEMPT FROM THE	STEL: 1

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

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 AVAILABLE		NO INFORMATION
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 AVAILABLE	1.31	NO INFORMATION
WATER SOLUBILITY AVAILABLE		NO INFORMATION
VISCOSITY, KINEMATIC AVAILABLE		NO INFORMATION
FLAME EXTENSION W/O EXT TUBE	18	
FLAME EXTENSION WITH EXT TUBE	NA	
FLASH BACK W/O EXT TUBE	1	
FLASH BACK WITH EXT TUBE	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 4 H (RAT) 4 H	4300 MG/KG (RAT)	1700 MG/KG (RABBIT)	5000 PPM (RAT) 47635 MG/L
NAPHTHENIC OIL, H SEVERELY HYDROTREATED	5000 MG/KG (RAT)	5000 MG/KG (RABBIT)	5 MG/L (RAT) 4
HEXANE 4 H	25 G/KG (RAT)	3000 MG/KG (RABBIT)	48000 PPM (RAT)
ETHYL BENZENE 4 H	3500 MG/KG (RAT)	15354 MG/KG (RABBIT)	17.2 MG/L (RAT)
HYDROTREATED HEAVY 4 H NAPHTHENIC	5000 MG/KG (RAT)	2000 MG/KG (RABBIT)	2.18 MG/L (RAT)

CHRONIC TOXICITY:

CARCINOGENICITY:

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

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

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

ETHYL BENZENE PRESENT X KE-13532 X
X

HYDROTREATED HEAVY NOT LISTED X KE-30124 X
X
NAPHTHENIC

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

DSL/NDL: 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 REPRODUCTIVE	CARCINOGEN DEVELOPMENTAL MALE

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.

