1301 E. 9th Street, #700
Cleveland OH 44114
(800) 726-9626

Barnes Distribution

Material Safety Data Sheet

MSDS Form No. : 039468
Item No. : BD1011, BD1011-1

MATERIAL SAFETY DATA SHEET

ISSUING DATE: 15-FEB-2013

REVISION DATE: 15-FEB-2013

VERSION: 1

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

PRODUCT NAME: BD1011 ALL PURPOSE CLEANER
PRODUCT CODE: F01563
PRODUCT TYPE: NON-FLAMMABLE AEROSOL
RECOMMENDED USE: ALL PURPOSE CLEANER

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 ------

CAUTION!

EMERGENCY OVERVIEW:
IRRITATING TO RESPIRATORY SYSTEM

IRRITATING TO SKIN

IRRITATING TO EYES

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

CONTENTS UNDER PRESSURE

APPEARANCE: HAZY

PHYSICAL STATE: AEROSOL

ODOR: FRAGRANCE

**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. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.**

**CHRONIC EFFECTS:
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING CONTENTS MAY BE
HARMFUL OR FATAL. CHRONIC HYDROCARBON ABUSE HAS BEEN ASSOCIATED WITH IRREGULAR
HEART RHYTHMS AND POTENTIAL CARDIAC ARREST. PROLONGED SKIN CONTACT MAY DEFAT
THE SKIN AND PRODUCE DERMATITIS.**

MAIN SYMPTOMS:
PROLONGED SKIN CONTACT MAY DEFAT THE SKIN AND PRODUCE DERMATITIS.

AGGRAVATED MEDICAL CONDITIONS: NO INFORMATION AVAILABLE.

INTERACTIONS WITH OTHER CHEMICALS: OXIDIZING AGENTS

ENVIRONMENTAL HAZARD: SEE SECTION 12 FOR ADDITIONAL ECOLOGICAL INFORMATION

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

THIS PRODUCT IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD
(29 CFR 1910.1200).

CHEMICAL NAME	CAS-NO	WEIGHT %
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	3-7
2-BUTOXYETHANOL	111-76-2	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. SEEK IMMEDIATE
MEDICAL ATTENTION/ADVICE.

SKIN CONTACT:
WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE RE-USE. GET MEDICAL ATTENTION IMMEDIATELY IF
SYMPTOMS OCCUR.

INHALATION:
MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING
HAS STOPPED, CONTACT EMERGENCY MEDICAL SERVICES IMMEDIATELY.

INGESTION:
CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
PERSON. RISK OF PRODUCT ENTERING THE LUNGS ON VOMITING AFTER INGESTION. DO NOT
INDUCE VOMITING.

NOTES TO PHYSICIAN: NO INFORMATION AVAILABLE.

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

FLAMMABLE PROPERTIES:
NOT FLAMMABLE AS DISPENSED AND TESTED PER 16 CFR 1500.45.

FLASH POINT: -132 DEG. F / -91 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	**1**
FLAMMABILITY	**4**
STABILITY	**0**
PHYSICAL AND CHEMICAL HAZARDS	

HMIS:

HEALTH HAZARD	**1**
FLAMMABILITY	**2**
PHYSICAL HAZARD	**2**
PERSONAL PROTECTION	**B**

------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:
WEAR PERSONAL PROTECTIVE EQUIPMENT. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. DO NOT BREATHE VAPORS OR SPRAY MIST. DO NOT INGEST. KEEP AWAY FROM
HEAT, SPARKS AND OPEN FLAME. NO SMOKING. WASH THOROUGHLY AFTER HANDLING.

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
2-BUTOXYETHANOL	TWA: 20 PPM	TWA: 50 PPM	IDLH: 700 PPM
111-76-2		TWA: 240 MG/M3	TWA: 5 PPM
		(VACATED) TWA: 25 PPM	TWA: 24 MG/M3
		(VACATED) TWA: 120 MG/M3	
		(VACATED) S*	
		S*	
SODIUM HYDROXIDE	CEILING: 2 MG/M3	TWA: 2 MG/M3	IDLH: 10 MG/M3
1310-73-2			CEILING: 2 MG/M3
		(VACATED) CEILING: 2 MG/M3	

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: HAZY

ODOR: FRAGRANCE

COLOR: NO INFORMATION AVAILABLE

PROPERTY	VALUES	REMARKS – METHODS
PH	11.5	
BOILING POINT/BOILING RANGE		NO INFORMATION AVAILABLE
FLASH POINT	-91 DEG. C / -132 DEG. F	BASED ON PROPELLANT
FLAMMABILITY LIMITS IN AIR		NO DATA AVAILABLE
UPPER FLAMMABILITY LIMIT		
LOWER FLAMMABILITY LIMIT		
VAPOR PRESSURE		NOT DETERMINED

VAPOR DENSITY		HEAVIER THAN AIR
SPECIFIC GRAVITY	0.98	NO INFORMATION AVAILABLE
WATER SOLUBILITY		NO INFORMATION AVAILABLE
VISCOSITY, KINEMATIC		NO INFORMATION AVAILABLE
FLAME EXTENSION W/O EXT TUBE	0	
FLAME EXTENSION WITH EXT TUBE	NA	
FLASH BACK W/O EXT TUBE	0	
FLASH BACK WITH EXT TUBE	NA	
VOC CONTENT(%)	7.45	

------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. HYDROCARBONS.

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
2-BUTOXYETHANOL	470 MG/KG (RAT)	2270 MG/KG (RAT)	2.21 MG/L (RAT) 4 H

220 MG/KG (RABBIT) 450 PPM (RAT) 4
H

CHRONIC TOXICITY:

CHRONIC TOXICITY:
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING CONTENTS MAY BE
HARMFUL OR FATAL. CHRONIC HYDROCARBON ABUSE HAS BEEN ASSOCIATED WITH IRREGULAR
HEART RHYTHMS AND POTENTIAL CARDIAC ARREST. PROLONGED SKIN CONTACT MAY DEFAT
THE SKIN AND PRODUCE DERMATITIS.

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

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
2-BUTOXYETHANOL	A3	GROUP 3		

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

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

TARGET ORGAN EFFECTS:
BLOOD. CENTRAL NERVOUS SYSTEM. EYES. HEMATOPOIETIC SYSTEM. KIDNEY. LIVER.
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, NON-FLAMMABLE, 2.2, LTD. QTY

IMDG: UN1950, AEROSOLS, 2.2, 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	ENCS
PROPANE/ ISOBUTANE/ N-BUTANE	PRESENT	X	NOT LISTED	270-705-8	NOT LISTED	NOT LISTED
2-BUTOXYETHANOL	PRESENT	X	NOT LISTED	203-905-0	NOT LISTED	PRESENT

CHEMICAL NAME	IECSC	KECL	PICCS	AICS
PROPANE/ ISOBUTANE/ N-BUTANE	X	KE-28192	X	X
2-BUTOXYETHANOL	X	KE-04134	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 %
2-BUTOXYETHANOL	1.0

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 DOES NOT CONTAIN ANY KNOWN PROPOSITION 65 CHEMICALS.

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

CHEMICAL NAME	MASSACHUSETTS	NEW JERSEY	PENNSYLVANIA	ILLINOIS	RHODE ISLAND
PINE OIL		X			
AMMONIA	X	X	X		

INTERNATIONAL REGULATIONS:

CHEMICAL NAME	CARCINOGEN STATUS	EXPOSURE LIMITS
2-BUTOXYETHANOL		MEXICO: TWA: 26 PPM
		MEXICO: TWA: 120 MG/M3
		MEXICO: STEL: 75 PPM

MEXICO:
STEL: 360 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: 15-FEB-2013

REVISION DATE: 15-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.