

MSDS
ORDER NO: RELEASE NO: MSDS NO:

B A R N E S D I S T R I B U T I O N

Synonyms: BD1089 BD1089-1
MATERIAL SAFETY DATA SHEET

BD1089

04 00

DATE OF PREPARATION: AUG 12, 2012

-----SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION -----

PRODUCT NUMBER: BD1089

HMS CODES:
HEALTH 2
FLAMMABILITY 4
REACTIVITY 0

PRODUCT NAME: DRY GRAPHITE LUBRICANT

MANUFACTURER'S NAME:
MFG. FOR:
BARNES DISTRIBUTION
1301 EAST 9TH ST.
SUITE 700
CLEVELAND, OH 44114-1824

TELEPHONE NUMBERS AND WEBSITES:
PRODUCT INFORMATION: (866) 438-6767
REGULATORY INFORMATION: (216) 566-2902
MEDICAL EMERGENCY: (303) 739-1178
TRANSPORTATION EMERGENCY: (800) 424-9300
FOR CHEMICAL EMERGENCY ONLY (SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT)

-----SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS -----

% BY WT	CAS NO.	INGREDIENT	UNITS	VAPOR PRESSURE
15	74-98-6	PROPANE		760 MM
		ACGIH TLV: 2500 PPM		
		OSHA PEL: 1000 PPM		
14	106-97-8	BUTANE		760 MM
		ACGIH TLV: 800 PPM		
		OSHA PEL: 800 PPM		
44	142-82-5	HEPTANE		50 MM
		ACGIH TLV: 400 PPM		
		ACGIH TLV: 500 PPM STEL		
		OSHA PEL: 400 PPM		
		OSHA PEL: 500 PPM STEL		

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 B A R N E S D I S T R I B U T I O N
1 108-88-3 TOLUENE 22 MM
 ACGIH TLV: 20 PPM
 OSHA PEL: 100 PPM (SKIN)
 OSHA PEL: 150 PPM (SKIN) STEL

24 67-63-0 2-PROPANOL 33 MM
 ACGIH TLV: 200 PPM
 ACGIH TLV: 400 PPM STEL
 OSHA PEL: 400 PPM

1 7782-42-5 GRAPHITE
 ACGIH TLV: 2 MG/M3
 OSHA PEL: 2.5 MG/M3

-----SECTION 3 - HAZARDS IDENTIFICATION -----

ROUTES OF EXPOSURE:
INHALATION OF VAPOR OR SPRAY MIST.
EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE:

EYES: IRRITATION.

SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

INHALATION:
IRRITATION OF THE UPPER RESPIRATORY SYSTEM.

MAY CAUSE NERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN
UNCONSCIOUSNESS AND POSSIBLY DEATH.

PROLONGED OVEREXPOSURE TO SOLVENT INGREDIENTS IN SECTION 2 MAY CAUSE ADVERSE
EFFECTS TO THE LIVER, URINARY, CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:
HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF
EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS.

REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN
EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE GENERALLY RECOGNIZED.

CANCER INFORMATION:
FOR COMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

-----SECTION 4 - FIRST AID MEASURES -----

EYES:
FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.

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GET MEDICAL ATTENTION.

SKIN:
WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE.

INHALATION:
IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING.
KEEP WARM AND QUIET.

INGESTION:
DO NOT INDUCE VOMITING.
GET MEDICAL ATTENTION IMMEDIATELY.

-----SECTION 5 - FIRE FIGHTING MEASURES -----

FLASH POINT:
PROPELLANT: <0 F

LEL: 1.0
UEL: 12.7

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE
A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL
ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS
SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE
PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE
BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME
HEAT.

-----SECTION 6 - ACCIDENTAL RELEASE MEASURES -----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA.
REMOVE WITH INERT ABSORBENT.

-----SECTION 7 - HANDLING AND STORAGE -----

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STORAGE CATEGORY: NOT AVAILABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. VAPORS WILL ACCUMULATE READILY
AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GONE:
KEEP AREA VENTILATED - DO NOT SMOKE - EXTINGUISH ALL FLAMES, PILOT LIGHTS,
AND HEATERS - TURN OFF STOVES, ELECTRIC TOOLS AND APPLIANCES, AND ANY OTHER
SOURCES OF IGNITION.

CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES.

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE, OR EXPOSE TO
TEMPERATURE ABOVE 120F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT WATER,
AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE
INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

-----SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION -----

PRECAUTIONS TO BE TAKEN IN USE:
USE ONLY WITH ADEQUATE VENTILATION.
AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPOR AND SPRAY MIST.
WASH HANDS AFTER USING.

VENTILATION:
LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO
MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS.
REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION:
IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY
VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR
APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

PROTECTIVE GLOVES:
NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN
CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICAL RESISTANT
GLOVES.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

OTHER PRECAUTIONS:
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS
CAN BE HARMFUL OR FATAL.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

PRODUCT WEIGHT:
5.50 LB/GAL
658 G/L

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SPECIFIC GRAVITY: 0.66

BOILING POINT:

<0 - 238 F

<-18 - 114 C

MELTING POINT: NOT AVAILABLE

VOLATILE VOLUME: 99%

EVAPORATION RATE: FASTER THAN ETHER

VAPOR DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: N.A.

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL - AS PACKAGED):

VOLATILE WEIGHT: 98.80% LESS WATER AND FEDERALLY EXEMPT SOLVENTS

-----SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS:

BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

-----SECTION 11 - TOXICOLOGICAL INFORMATION -----

CHRONIC HEALTH HAZARDS:

NO INGREDIENT IN THIS PRODUCT IS AN IARC, NTP OR OSHA LISTED CARCINOGEN.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS
WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

TOXICOLOGY DATA:

CAS NO.

INGREDIENT NAME

74-98-6

PROPANE

LC50 RAT 4HR: NOT AVAILABLE

LD50 RAT: NOT AVAILABLE

106-97-8

BUTANE

LC50 RAT 4HR: NOT AVAILABLE

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B A R N E S D I S T R I B U T I O N
LD50 RAT: NOT AVAILABLE

142-82-5

HEPTANE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

108-88-3

TOLUENE
LC50 RAT 4HR: 4000 PPM
LD50 RAT: 5000 MG/KG

67-63-0

2-PROPANOL
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: 5045 MG/KG

7782-42-5

GRAPHITE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

-----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

-----SECTION 13 - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL METHOD:

WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE
CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA
HAZARDOUS WASTE NUMBERS.

DO NOT INCINERATE. DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE WITH
FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS REGARDING POLLUTION.

-----SECTION 14 - TRANSPORT INFORMATION -----

Multi-modal shipping descriptions are provided for informational purposes and
do not consider container sizes. The presence of a shipping description for a
particular mode of transport (ocean, air, etc.), does not indicate that the
product is packaged suitably for that mode of transport. All packaging must be
reviewed for suitability prior to shipment, and compliance with the applicable
regulations is the sole responsibility of the person offering the product for
transport.

US GROUND (DOT):

MAY BE CLASSED AS LTD. OR ORM-D

UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

CANADA (TDG):

MAY BE CLASSED AS LTD. OR ORM-D

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

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IMO:
MAY BE SHIPPED AS LIMITED QUANTITY
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EMS F-D, S-U, ADR (D)

IATA/ICAO
UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

-----SECTION 15 - REGULATORY INFORMATION -----

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% ELEMENT
108-88-3	TOLUENE	1	

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TSCA CERTIFICATION:
ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE
TSCA INVENTORY.

CANADA WHMIS CLASS CODES:
CLASS B- DIVISION 5- FLAMMABLE AEROSOL
CLASS D- DIVISION 2-SUBDIVISION A- VERY TOXIC MATERIAL

-----SECTION 16 - OTHER INFORMATION -----

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

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED, AND
IS BASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR
OTHER ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND
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