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MATERIAL SAFETY DATA SHEET

BD1128

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DATE OF PREPARATION: MAY 10, 2012

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

PRODUCT NUMBER: BD1128

PRODUCT NAME: CUTTING TOOL COOLANT

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)

HMIS CODES:

HEALTH 2*

FLAMMABILITY 2

REACTIVITY 0

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

% BY WT	CAS NO.	INGREDIENT	UNITS	VAPOR PRESSURE
20	75-09-2	METHYLENE CHLORIDE ACGIH TLV: 50 PPM OSHA PEL: 25 PPM OSHA PEL: 125 PPM STEL		420 MM
78	127-18-4	TETRACHLOROETHYLENE ACGIH TLV: 25 PPM ACGIH TLV: 100 PPM STEL OSHA PEL: 25 PPM		18 MM
3	124-38-9	CARBON DIOXIDE ACGIH TLV: 5000 PPM OSHA PEL: 5000 PPM		760 MM

-----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.

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IN A CONFINED AREA VAPORS IN HIGH CONCENTRATION MAY CAUSE HEADACHE, NAUSEA OR DIZZINESS.

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

OVEREXPOSURE TO METHYLENE CHLORIDE CAN RAISE THE LEVEL OF CARBON MONOXIDE IN THE BLOOD.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

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

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

CARDIOVASCULAR PROBLEMS MAY BE AGGRAVATED BY OVEREXPOSURE TO METHYLENE CHLORIDE.

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.
GET MEDICAL ATTENTION.

SKIN:

WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND LAUNDRER 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: NOT APPLICABLE

LEL: N.A.

UEL: N.A.

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CLOSED CONTAINERS MAY EXPLODE (DUE TO THE BUILD-UP OF PRESSURE) WHEN EXPOSED TO EXTREME HEAT.

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

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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 -----

STORAGE CATEGORY: NOT AVAILABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
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:
BEFORE INITIAL USE, CONSULT OSHA'S 'STANDARD FOR OCCUPATIONAL EXPOSURE TO METHYLENE CHLORIDE' (29 CFR 1910.1052).

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:
AN AIR SUPPLIED RESPIRATOR MUST BE WORN, UNLESS AIR MONITORING DEMONSTRATES VAPOR/MIST CONCENTRATIONS ARE BELOW PERMISSABLE LIMITS.

FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE.

PROTECTIVE GLOVES:
FOR INTERMITTENT EXPOSURE, WEAR VITON OR NITRILE GLOVES RECOMMENDED BY GLOVE MANUFACTURER FOR PROTECTION AGAINST MATERIALS IN SECTION 2. FOR IMMERSION, WEAR PVA GLOVES RECOMMENDED BY GLOVE MANUFACTURER.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

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

PRODUCT WEIGHT:
12.62 LB/GAL
1511 G/L

SPECIFIC GRAVITY: 1.52

BOILING POINT:
<0 - 252 F

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<-18 - 122 C

MELTING POINT: NOT AVAILABLE

VOLATILE VOLUME: 100 %

EVAPORATION RATE: FASTER THAN ETHER

VAPOR DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: N.A.

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL - AS PACKAGED):
VOLATILE WEIGHT 0.00% 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, HYDROGEN CHLORIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

CHRONIC HEALTH HAZARDS:
METHYLENE CHLORIDE IS LISTED BY IARC, NTP, AND OSHA. LABORATORY ANIMALS EXPOSED TO HIGH LEVELS OF METHYLENE CHLORIDE IN LIFETIME STUDIES HAVE DEVELOPED CANCER. THERE IS NO EVIDENCE TO DATE THAT METHYLENE CHLORIDE CAUSES CANCER IN HUMANS.

TETRACHLOROETHYLENE, LISTED BY NTP AND IARC AS AN ANIMAL CARCINOGEN AND BY OSHA AS A POTENTIAL HUMAN CARCINOGEN, PRODUCED LIVER TUMORS AND LEUKEMIA IN RATS AND LUNG TUMORS IN MICE. HUMAN EPIDEMIOLOGICAL EVIDENCE IS CONFLICTING AND INCONCLUSIVE.

TOXICOLOGY DATA:

CAS NO.	INGREDIENT NAME
75-09-2	METHYLENE CHLORIDE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 1600 MG/KG
127-18-4	TETRACHLOROETHYLENE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 2630 MG/KG
124-38-9	CARBON DIOXIDE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

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

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

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

WASTE DISPOSAL METHOD:

WASTE FROM THIS PRODUCT IS NOT HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

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

THIS PRODUCT CONTAINS TETRACHLOROETHYLENE, A HIGHLY VOLATILE SOLVENT WHICH IS A TOXIC WASTE AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261. IN NORMAL USE THIS CHEMICAL WILL QUICKLY EVAPORATE, HOWEVER GREASE OR OTHER RESIDUE REMOVED BY THIS PRODUCT MAY CONTAIN SUFFICIENT TETRACHLOROETHYLENE TO BE CLASSIFIED AS A TOXIC WASTE.

-----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. QTY. OR ORM-D
UN1950, AEROSOLS, 2.2, LIMITED QUANTITY, (ERG#126)

CANADA (TDG):

MAY BE CLASSED AS LTD. QTY. OR ORM-D
UN1950, AEROSOLS, CLASS 2.2, LIMITED QUANTITY, (ERG#126)

IMO:

MAY BE SHIPPED AS LIMITED QUANTITY
UN1950, AEROSOLS, CLASS 2.2, LIMITED QUANTITY, MARINE POLLUTANT,
(PERCHLOROETHYLENE), EMS F-D, S-U, ADR(D)

IATA/ICAO

UN1950, AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION
6.1, PACKING GROUP III, 2.2, 6.1, LIMITED QUANTITY

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

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% ELEMENT
75-09-2	METHYLENE CHLORIDE	20	
127-18-4	TETRACHLOROETHYLENE	78	

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

TSCA CERTIFICATION:

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

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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 HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.