

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: BD1098 BD1098-1
MATERIAL SAFETY DATA SHEET

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

PRODUCT NAME: BD1098 PENETRATING LUBE W/PTFE

IDENTIFICATION NUMBER: 0718-44 A-7070

DATE PRINTED: 08/02/10

PRODUCT USE/CLASS: PENETRATING LUBRICANT

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

EMERGENCY TELEPHONE: 303-623-5716 ROCKY MOUNTAIN POISON CONTROL 24

PREPARER: REGULATORY AFFAIRS

PHONE:

PREPARE DATE: 08/02/10

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

ITEM	CHEMICAL NAME	CAS NUMBER	WEIGHT %
01	KEROSENE	8008-20-6	30-40
02	PETROLEUM HYDROCARBON SOLVENT	64742-47-8	20-30
03	HYDROTREATED, SEVERE, LT. NAPHTHENIC DIST.	64742-52-5	10-20
04	PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	10-20
05	HIGHLY REFINED MINERAL OILS	64742-65-0	1-10
06	2-BUTOXYETHANOL	111-76-2	1-10

EXPOSURE LIMITS:

ITEM	TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	400 PPM	N.E.	400 PPM	N.E.	N.E.	NO
02	100 PPM	N.E.	100 PPM	500 PPM	N.E.	YES

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			
03	5 MG/M3 (MIST)	10 MG/M3 MIS	5 MG/M3 MIST	N.E.	N.E.	NO
04	N.E.	N.E.	N.E.	N.E.	N.E.	NO
05	5 MG/M3	10 MG/M3	N.E.	N.E.	N.E.	NO
06	25 PPM SKIN	N.E.	25 PPM SKIN	50 PPM SKIN	N.E.	NO

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

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

EMERGENCY OVERVIEW:

CAUSES SKIN IRRITATION. ASPIRATION HAZARD. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. CONTENTS UNDER PRESSURE!
HARMFUL OR FATAL IF SWALLOWED. MAY ENTER LUNGS AND CAUSE DAMAGE. MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION. INHALATION OF VAPORS OR MISTS OF THIS PRODUCT MAY BE IRRITATING TO THE RESPIRATORY SYSTEM. EXTREMELY FLAMMABLE AEROSOL

EFFECTS OF OVEREXPOSURE - EYE CONTACT:

LIQUID, AEROSOLS AND VAPORS OF THIS PRODUCT ARE IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING ACCOMPANIED BY A STINGING SENSATION AND/OR A FEELING LIKE THAT OF FINE DUST IN THE EYES. MAY CAUSE PAIN DISPROPORTIONATE TO THE LEVEL OF IRRITATION TO EYE TISSUES. MAY CAUSE MODERATE EYE IRRITATION WHICH MAY BE SLOW TO HEAL. MAY CAUSE SLIGHT CORNEAL INJURY. VAPOR MAY CAUSE EYE IRRITATION EXPERIENCED AS MILD DISCOMFORT AND REDNESS. MODERATELY IRRITATING TO THE EYES.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:

CAUSES SKIN IRRITATION. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH). CAUSES IRRITATION TO SKIN. SYMPTOMS INCLUDE REDNESS, ITCHING, AND PAIN. MAY BE ABSORBED THROUGH THE SKIN WITH POSSIBLE SYSTEMIC EFFECTS. PROLONGED EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION. REPEATED EXPOSURE MAY CAUSE IRRITATION AND POSSIBLY A BURN.

EFFECTS OF OVEREXPOSURE - INHALATION:

PROLONGED INHALATION MAY BE HARMFUL. INHALING LARGE QUANTITIES OF MIST OR VAPORS MAY CAUSE SOME IRRITATION TO NOSE, THROAT, LUNGS. AVOID BREATHING MISTS FROM THIS PRODUCT. EXPOSURE TO HIGH DOSES MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION (ANESTHETIC-LIKE EFFECTS). DOSES WHICH CAUSE ANESTHETIC-LIKE EFFECTS MAY ALSO CAUSE ADVERSE EFFECTS IN LIVER, LUNGS, AND KIDNEYS.

EFFECTS OF OVEREXPOSURE - INGESTION:

INGESTION IS NOT CONSIDERED TO BE A HAZARD ENCOUNTERED IN NORMAL INDUSTRIAL USE. THIS MATERIAL MAY BE HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. LOW ORDER OF TOXICITY. MAY CAUSE MILD NAUSEA AND ABDOMINAL DISCOMFORT. MODERATELY TOXIC IF SWALLOWED. SMALL AMOUNTS SWALLOWED INCIDENTALLY AS A

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
RESULT OF NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY;
HOWEVER, SWALLOWING LARGER AMOUNTS MAY CAUSE INJURY.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
REPEATED CONTACT WITH SKIN MAY IRRITATE PRE-EXISTING SKIN CONDITIONS.

PRIMARY ROUTE(S) OF ENTRY:
SKIN CONTACT:
SKIN ABSORPTION:
INHALATION:
INGESTION:
EYE CONTACT:

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

FIRST AID - EYE CONTACT:
HOLDING EYELIDS OPEN, FLUSH EYES WITH RUNNING WATER FOR 5 MINUTES. REMOVE
CONTACT LENSES IF WEARING AND FLUSH OPEN EYES WITH RUNNING WATER FOR AT
LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT:
WASH WITH SOAP AND LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. GET
MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. WASH CONTAMINATED
CLOTHING BEFORE RE-USE.

FIRST AID - INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF
BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

FIRST AID - INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY. NOT
EXPECTED TO BE ACUTELY TOXIC. IF LARGE AMOUNTS ARE SWALLOWED, IMMEDIATELY
CALL A PHYSICIAN.

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

FLASH POINT: -141 F (PENSKY-MARTENS C.C.)

LOWER EXPLOSIVE LIMIT: 0.7%
UPPER EXPLOSIVE LIMIT: 10.6%

AUTOIGNITION TEMPERATURE: ND

EXTINGUISHING MEDIA:
ALCOHOL FOAM
CO2
DRY CHEMICAL
FOAM
WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

ORDER NO:

RELEASE NO:

MSDS NO:

VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. EXTREMELY FLAMMABLE. MATERIAL WILL READILY IGNITE AT ROOM TEMPERATURES IN THE PRESENCE OF AN IGNITION SOURCE. "EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. CONTENTS UNDER PRESSURE. CONTAINERS MAY EXPLODE IF EXPOSED TO HIGH TEMPERATURES.

SPECIAL FIREFIGHTING PROCEDURES:

CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT (FIRE). AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. KEEP CONTAINERS AND SURROUNDINGS COOL WITH WATER SPRAY. BEWARE OF VAPORS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPORS CAN ACCUMULATE IN LOW AREAS.

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
USE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER.

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

AEROSOL LEVEL: 3

HANDLING:

WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH EYES, SKIN, CLOTHING. AVOID BREATHING SPRAY MIST. PROMPTLY CLEAN RESIDUE FROM CLOSURES WITH CLOTH DAMPENED WITH WATER. PROMPTLY CLEAN UP SPILLS. USE ONLY IN WELL-VENTILATED AREA.

STORAGE :

KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP FROM FREEZING. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE IN ALUMINUM, FIBERGLASS, COPPER, BRASS, ZINC, OR GALVANIZED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN! DO NOT STORE ABOVE 120F (49C). DO NOT SPRAY INTO OPEN FLAME OR NEAR OTHER SOURCES OF IGNITION. DO NOT STORE IN DIRECT SUNLIGHT, PUNCTURE, CRUSH OR INCINERATE CONTAINER.

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

ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLV'S DURING THE USE OF THIS PRODUCT.

RESPIRATORY PROTECTION:

A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE

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

AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS. PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

SKIN PROTECTION:

IMPERVIOUS GLOVES SHOULD BE USED. WHERE CONTACT IS LIKELY, WEAR CHEMICAL RESISTANT GLOVES, A CHEMICAL SUIT, RUBBER BOOTS, AND CHEMICAL SAFETY GOGGLES PLUS A FACE SHIELD.

EYE PROTECTION:

WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES WHEN USING THIS PRODUCT.

OTHER PROTECTIVE EQUIPMENT:

STANDARD INDUSTRIAL CLOTHING STANDARDS SHOULD BE FOLLOWED.

HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE ONLY IN A WELL VENTILATED AREA. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE THEY MAY RETAIN PRODUCT RESIDUES. GROUND AND BOND CONTAINERS WHEN TRANSFERRING MATERIAL. USE SPARK-PROOF TOOLS AND EXPLOSION PROOF EQUIPMENT. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID BREATHING VAPORS FROM HEATED MATERIAL. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

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

BOILING RANGE: -23 - 522 F

VAPOR DENSITY: IS HEAVIER THAN AIR

ODOR: SOLVENT

ODOR THRESHOLD: ND

APPEARANCE: LIGHT AMBER/HAZY

EVAPORATION RATE: IS FASTER THAN BUTYL ACETATE

SOLUBILITY IN H2O: NEGLIGIBLE

FREEZE POINT: ND

SPECIFIC GRAVITY: 0.7619

VAPOR PRESSURE: ND

pH @ 0.0%: NA

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

PHYSICAL STATE: AEROSOL

VISCOSITY: ND

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

VOLATILE ORGANIC COMPOUNDS (VOCs): 4.76 LBS/GAL, 570 GRAMS/LTR

VOC, % (WT): 76.01%

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

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

CONDITIONS TO AVOID:
AVOID OPEN FLAMES AND HIGH TEMPERATURES. AVOID CONTACT WITH STRONG OXIDIZING AGENTS. ALL SOURCES OF IGNITION, WELDING ARCS, AND OPEN FLAMES. AVOID CONTACT WITH STRONG ACIDS.

INCOMPATIBILITY: STRONG OXIDIZING AGENTS. AVOID STRONG MINERAL ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE, CARBON DIOXIDE, SMOKE, FUMES. ALDEHYDES. KETONES. ORGANIC ACIDS

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

-----SECTION 11 - TOXICOLOGICAL PROPERTIES -----

PRODUCT LD50: 470 MG/KG
PRODUCT LC50: 2900 PPM

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
KEROSENE	>5000 MG/KG/RAT	>5000 MG/M3/4H/RAT
PETROLEUM HYDROCARBON SOLVENT	>5000 MG/KG/RAT	>5500 MG/M3/4H/RAT
HYDROTREATED, SEVERE, LT. NAPHTHENIC DI	NE	NE
PROPANE/ISOBUTANE/N-BUTANE	NE	NE
HIGHLY REFINED MINERAL OILS	>5000 MG/KG/RAT	NE
2-BUTOXYETHANOL	470 MG/KG/RAT	2900 MG/M3/7H/RAT

MSDS
ORDER NO: RELEASE NO: MSDS NO:

-----SECTION 12 - ECOLOGICAL INFORMATION -----
B A R N E S D I S T R I B U T I O N

ECOLOGICAL INFORMATION:
THIS PRODUCT CONTAINS NAPHTHALENE, WITH 96 HOUR LC50 (FISH) TOXICITY OF 6.4 MG/L, WHICH IS A CHRONIC 2 MARPOL ANNEX III SUBSTANCE. PRODUCT IS EXPECTED TO BE READILY BIODEGRADABLE. EXPECTED TO BE MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS.

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

DISPOSAL METHOD:
DISPOSE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

-----SECTION 14 - TRANSPORTATION INFORMATION -----

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY

DOT TECHNICAL NAME:

DOT HAZARD CLASS: ORM-D

HAZARD SUBCLASS:

DOT UN/NA NUMBER:

PACKING GROUP:

RESP. GUIDE PAGE:

DOT EXEMPTIONS:

DOT SPECIAL INSTRUCTIONS:

IMDG SHIPPING INFORMATION: UN1950

IMDG PROPER SHIPPING NAME: AEROSOLS

IMDG TECHNICAL NAME:

IMDG HAZARD CLASS: 2.1

HAZARD SUBCLASS:

PACKING GROUP:

FLASH POINT, C: -96.4

IMDG EXEMPTIONS: LIMITED QUANTITY

IMDG SPECIAL INSTRUCTIONS:

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
MARINE POLLUTANT (YES/NO): Y

IATA SHIPPING INFORMATION: UN1950

IATA PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE

IATA TECHNICAL NAME:

IATA HAZARD CLASS: 2.1

HAZARD SUBCLASS:

PACKING GROUP:

IATA EXEMPTIONS: LIMITED QUANTITY

IATA SPECIAL INSTRUCTIONS:

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

U.S. FEDERAL REGULATIONS: AS FOLLOWS

OSHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA 'HAZARD CATEGORIES'
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
IMMEDIATE HEALTH HAZARD
CHRONIC HEALTH HAZARD
FIRE HAZARD
PRESSURIZED GAS HAZARD

SARA SECTION 313:
THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING
REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND
REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % IS LESS THAN
2-BUTOXYETHANOL	111-76-2	1-10

TOXIC SUBSTANCES CONTROL ACT:
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE
REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

CHEMICAL NAME	CAS NUMBER
POLYTETRAFLUOROETHYLENE	9002-84-0

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
U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE
COMPONENTS IN THIS PRODUCT:

CHEMICAL NAME	CAS NUMBER
---------------	------------

NO NON-HAZARDOUS MATERIALS ARE AMONG THE TOP FIVE INGREDIENTS.

PENNSYLVANIA RIGHT-TO-KNOW:
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT
GREATER THAN 3%:

CHEMICAL NAME	CAS NUMBER
---------------	------------

NO NON-HAZARDOUS INGREDIENTS ARE PRESENT AT GREATER THAN 3%.

CALIFORNIA PROPOSITION 65:

WARNING:
THE CHEMICAL(S) NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE KNOWN TO THE
STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE
HARM:

CHEMICAL NAME	CAS NUMBER
---------------	------------

NAPHTHALENE	91-20-3
-------------	---------

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT
REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: A, B5, D2B

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

HMIS RATINGS:
HEALTH 2
FLAMMABILITY 4
REACTIVITY 0

PREVIOUS MSDS REVISION DATE: 08/02/10

REASON FOR REVISION: AEROSOL LEVEL, TRANSPORTATION INFORMATION

LEGEND:
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
N.D. - NOT DETERMINED

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

THIS MSDS IS NOT FOR REPRODUCTION OR DISTRIBUTION:

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE
ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL
FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

PRODUCT: 0718-44 A-7070