

ITEM: 41P116 - Graphite Dry Film Lubrcnt Aerosol

MSDS: D2330

ORDER: 0158359034

LP NUMBER: U878134701

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

SDS - D2330 LIQUEFIED GAS; H280

Associated Grainger Items
41P116

"BLASTER" (R*)
GRAPHITE DRY LUBE
SAFETY DATA SHEET
OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER:
TRADE NAME: GRAPHITE DRY LUBE
PRODUCT CODE: 8-GS
RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
IDENTIFIED USE(S): LUBRICANT
USES ADVISED AGAINST: NONE
COMPANY IDENTIFICATION:
THE BLASTER CORPORATION
9500 SWEET VALLEY DRIVE
VALLEY VIEW, OHIO 44125
TELEPHONE: (216) 901-5800
FAX: (216) 901-5801
WEBSITE: WWW.BLASTERCORP.COM
EMERGENCY TELEPHONE NUMBER:
CHEMTREC 24 HR.: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
OSHA HCS (29 CFR 1910.1200):
FLAM. AEROSOL 1; LIQUEFIED GAS; SKIN IRRIT. 2; EYE IRRIT. 2; STOT SE 3;
ASP. TOX. 1
LABEL ELEMENTS:
HAZARD SYMBOL:
FLAME
GAS CYLINDER
EXCLAMATION MARK
HEALTH HAZARD
SIGNAL WORD(S): DANGER
HAZARD STATEMENT(S):
EXTREMELY FLAMMABLE AEROSOL.
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
CAUSES SKIN IRRITATION.
CAUSES SERIOUS EYE IRRITATION.
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
MAY CAUSE DROWSINESS OR DIZZINESS.
PRECAUTIONARY STATEMENT(S):
KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.
DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE.
DO NOT PIERCE OR BURN, EVEN AFTER USE.
USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
AVOID BREATHING SPRAY.
PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING
50 DEG. C/122 DEG. F.
WEAR PROTECTIVE GLOVES/EYE PROTECTION.
WASH HANDS AND EXPOSED SKIN AFTER USE.
KEEP OUT OF REACH OF CHILDREN.
OTHER HAZARDS:
TOXIC TO AQUATIC LIFE. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Table with 4 columns: HAZARDOUS INGREDIENT(S), % WT.*, CAS NO., HAZARD CLASSIFICATION. Rows include PETROLEUM DISTILLATE, ISOPROPANOL, and PROPANE.

BUTANE 10 - 15 106-97-8 FLAM. GAS 1; H220
LIQUEFIED GAS; H280

ADDITIONAL INFORMATION:
SUBSTANCES IN THE PRODUCT WHICH MAY PRESENT A HEALTH OR ENVIRONMENTAL HAZARD, OR WHICH HAVE BEEN ASSIGNED OCCUPATIONAL EXPOSURE LIMITS, ARE DETAILED BELOW.:
N-BUTANOL (CAS NO. 71-36-3), <1%
PROPYLENE GLYCOL METHYL ESTER (CAS NO. 107-98-2) <1%
*THE EXACT PERCENTAGE WITHHELD AS A TRADE SECRET IN ACCORDANCE WITH 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:
INHALATION:
IF INHALED:
REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. IF BREATHING IS LABORED, ADMINISTER OXYGEN. CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.
SKIN CONTACT:
WASH AFFECTED SKIN WITH SOAP AND WATER. IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE/ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.
EYE CONTACT:
IF IN EYES:
RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE/ATTENTION.
INGESTION:
DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL TREATMENT. DO NOT INDUCE VOMITING.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
ASPIRATION OF DROPLETS MAY CAUSE PULMONARY OEDEMA. MAY CAUSE DROWSINESS AND DIZZINESS.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:
SUITABLE EXTINGUISHING MEDIA:
EXTINGUISH WITH CARBON DIOXIDE, DRY CHEMICAL, FOAM OR WATER SPRAY.
UNSUITABLE EXTINGUISHING MEDIA: DO NOT USE WATER JET.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
HIGHLY FLAMMABLE VAPOR (FLASH POINT BELOW 23 DEG. C).
ADVICE FOR FIRE-FIGHTERS:
A SELF CONTAINED BREATHING APPARATUS AND SUITABLE PROTECTIVE CLOTHING SHOULD BE WORN IN FIRE CONDITIONS. KEEP CONTAINERS COOL BY SPRAYING WITH WATER IF EXPOSED TO FIRE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPORS.
ENVIRONMENTAL PRECAUTIONS:
PREVENT LIQUID ENTERING SEWERS, BASEMENTS AND WORK PITS. COLLECT SPILLAGE.
METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
COVER SPILLS WITH INERT ABSORBENT MATERIAL. TRANSFER TO A CONTAINER FOR DISPOSAL OR RECOVERY.
REFERENCE TO OTHER SECTIONS: NONE
ADDITIONAL INFORMATION: NONE

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:
KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. AVOID CONTACT WITH SKIN AND EYES. USE PRODUCT IN A WELL-VENTILATED AREA ONLY.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
STORAGE TEMPERATURE:
STORE LOCKED UP. KEEP IN A COOL, WELL VENTILATED PLACE. PROTECT FROM SUNLIGHT. STORE AT TEMPERATURES NOT EXCEEDING 50 DEG. C / 122 DEG. F. KEEP CONTAINER TIGHTLY CLOSED.
INCOMPATIBLE MATERIALS:
THIS PRODUCT SHOULD BE STORED AWAY FROM SOURCES OF STRONG HEAT OR OXIDIZING CHEMICALS.
SPECIFIC END USE(S): LUBRICANT

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

SUBSTANCE.	CAS NO.	(8HR TWA) PEL (OSHA)	TLV (ACGIH)	(STEL) PEL (OSHA)	NOTE
ALKANES AND CYCLOALKANES (C5 - C8)			1500 MG/M3		
ALKANES AND CYCLOALKANES (C9 - C15)			1200 MG/M3		
ISOPROPANOL	67-63-0	400 PPM	200 PPM		400 PPM
N-BUTANOL	71-36-3	100 PPM	20 PPM		
PROPYLENE GLYCOL METHYL ESTER	107-98-2		50 PPM		100 PPM
N-BUTANE	106-97-8		250 PPM		
PROPANE	74-98-6	1000 PPM	ASPYX.#		#

ASSURE MINIMUM OXYGEN CONTENT OF WORK ATMOSPHERE.

RECOMMENDED MONITORING METHOD:
NIOSH 1550 (NAPHTHAS); NIOSH 1500 (HYDROCARBONS, B.P. 36 - 126 DEG. C);
NIOSH 1400 (ALCOHOLS I); NIOSH 1401 (ALCOHOLS II); NIOSH 2554 (GLYCOL
ETHERS)

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS:
PROVIDE ADEQUATE VENTILATION TO ENSURE THAT THE OCCUPATIONAL EXPOSURE
LIMIT IS NOT EXCEEDED.

PERSONAL PROTECTION EQUIPMENT:

EYE/FACE PROTECTION:
WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD, OR SAFETY GLASSES).

SKIN PROTECTION (HAND PROTECTION/OTHER):
WEAR SUITABLE GLOVES IF PROLONGED SKIN CONTACT IS LIKELY (BUTYL RUBBER)

RESPIRATORY PROTECTION:
NORMALLY NO PERSONAL RESPIRATORY PROTECTION IS NECESSARY. IN CASE OF
INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

THERMAL HAZARDS:
NOT NORMALLY REQUIRED. USE GLOVES WITH INSULATION FOR THERMAL PROTECTION,
WHEN NEEDED.

ENVIRONMENTAL EXPOSURE CONTROLS: NONE KNOWN

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: AEROSOL SPRAY

COLOR.: COLORLESS

ODOR: MILD ISOPROPANOL ODOR

ODOR THRESHOLD (PPM): NOT AVAILABLE

PH (VALUE): NOT AVAILABLE

MELTING POINT (DEG. C) / FREEZING POINT (DEG. C): NOT AVAILABLE

BOILING POINT/BOILING RANGE (DEG. C): NOT AVAILABLE

FLASH POINT (DEG. C): -104 (PROPANE)

EVAPORATION RATE: NOT AVAILABLE

FLAMMABILITY (SOLID, GAS): EXTREMELY FLAMMABLE

EXPLOSIVE LIMIT RANGES: 2.1% - 9.5% V/V (PROPANE)

VAPOR PRESSURE (PASCAL): CA. 95 X 10(4) (PROPANE)

VAPOR DENSITY (AIR=1): CA. 1.56 @ 0 DEG. C (PROPANE)

DENSITY (G/ML): NOT AVAILABLE

SOLUBILITY (WATER): NOT AVAILABLE

SOLUBILITY (OTHER): NOT AVAILABLE

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT AVAILABLE

AUTO IGNITION POINT (DEG. C): 450 (PROPANE)

DECOMPOSITION TEMPERATURE (DEG. C): NOT AVAILABLE

KINEMATIC VISCOSITY (@40 DEG. C):
0.49 MM2/SEC (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)

EXPLOSIVE PROPERTIES: NOT EXPLOSIVE.

OXIDIZING PROPERTIES: NOT OXIDIZING.

OTHER INFORMATION: NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: STABLE UNDER NORMAL CONDITIONS.

CHEMICAL STABILITY: STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE ANTICIPATED.

CONDITIONS TO AVOID: AVOID CONTACT WITH HEAT AND IGNITION SOURCES.

INCOMPATIBLE MATERIALS:
STRONG OXIDIZING AGENTS; STRONG ACIDS; ALDEHYDES; HALOGENS; AMINES;

HALOGENATED HYDROCARBONS, ALKALIS. DO NOT USE WITH ALUMINUM EQUIPMENT
AT TEMPERATURES EXCEEDING 120 DEG. F.

HAZARDOUS DECOMPOSITION PRODUCT(S):
CARBON MONOXIDE, CARBON DIOXIDE, ACRID SMOKE

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE ROUTES: INHALATION, SKIN CONTACT, EYE CONTACT

INFORMATION ON TOXICOLOGICAL EFFECTS:

PETROLEUM DISTILLATE (CAS NO.: TRADE SECRET) - BY ANALOGY WITH SIMILAR
MATERIALS:

ACUTE TOXICITY (CALCULATED / ESTIMATED):

ORAL:
LD50: >5000 MG/KG-BW

DERMAL:
LD50: >2000 MG/KG-BW

INHALATION:
LC0: >=7.6 MG/L (VAPOR), 4-HR. RAT - MAY CAUSE DROWSINESS OR DIZZINESS.

IRRITATION/CORROSIVITY:
CAUSES SKIN IRRITATION. REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR
CRACKING.

SENSITIZATION: IT IS NOT A SKIN SENSITIZER.

REPEATED DOSE TOXICITY:

DERMAL:
NOEL: >2000 MG/KG BW (SYSTEMIC EFFECTS)

INHALATION:
NOAEC: 1.4 MG/L (VAPOR)

CARCINOGENICITY: IT IS UNLIKELY TO PRESENT A CARCINOGENIC HAZARD TO MAN.
NTP: NO.
IARC: NO.
ACGIH: NO.
OSHA: NO.
NIOSH: NO.

MUTAGENICITY: NOT TO BE EXPECTED

REPRODUCTIVE TOXICITY: NOT TO BE EXPECTED

ISOPROPANOL (CAS# 67-63-0):

ACUTE TOXICITY:

ORAL:
LD50: 5.84 G/KG (RAT)

INHALATION:
LC50: >1000 PPM (RAT) 6 HOUR(S)

DERMAL:
LD50: 16.4 ML/KG (RABBIT) 24 HOUR(S)

MAY CAUSE DROWSINESS OR DIZZINESS.

IRRITATION/CORROSIVITY: IRRITATING TO EYES.

SENSITIZATION: IT IS NOT A SKIN SENSITIZER.

REPEATED DOSE TOXICITY:
NOAEL: 5,000 PPM (INHALATION)
MAY CAUSE DROWSINESS OR DIZZINESS.

CARCINOGENICITY: IT IS UNLIKELY TO PRESENT A CARCINOGENIC HAZARD TO MAN.
NTP: NO.
IARC: NO.
ACGIH: NO.
OSHA: NO.
NIOSH: NO.

MUTAGENICITY: THERE IS NO EVIDENCE OF MUTAGENIC POTENTIAL.

REPRODUCTIVE TOXICITY: NOT AVAILABLE

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

PETROLEUM DISTILLATE (CAS NO.: TRADE SECRET) - BY ANALOGY WITH SIMILAR
MATERIALS:

SHORT TERM:
LL50 (96 HOUR): 8.2 MG/L (FISH)
EL50 (48 HOUR): 4.5 MG/L (CRUSTACEA)
EL50 (72 HOUR): 3.1 MG/L (ALGAE)

LONG TERM:
NOELR (21 DAYS): 2.6 MG/L (CRUSTACEA; REPRODUCTION)
NOELR (72 HOUR): 0.5 MG/L (ALGAE; GROWTH RATE)

PERSISTENCE AND DEGRADABILITY:
ACCORDING TO OECD CRITERIA THE PRODUCT IS NOT READILY BIODEGRADABLE BUT
INHERENTLY BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL:
THE PRODUCT HAS NO POTENTIAL FOR BIOACCUMULATION.

MOBILITY IN SOIL: NOT AVAILABLE.

RESULTS OF PBT AND VPVB ASSESSMENT: NOT CLASSIFIED AS PBT OR VPVB.

OTHER ADVERSE EFFECTS: NONE KNOWN.

ISOPROPANOL (CAS# 67-63-0):

SHORT TERM:
LC50 (96 HOUR): 10,000 MG/L (FATHEAD MINNOW (PIMEPHALES PROMELAS))

LC50 24 HOUR(S) : >10,000 MG/L (DAPHNIA MAGNA)

LONG TERM
NOEC: 3.37 (MICRO)MOL/L (DAPHNIA MAGNA) (GROWTH RATE)

PERSISTENCE AND DEGRADABILITY: READILY BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: NOT AVAILABLE.

MOBILITY IN SOIL: NOT AVAILABLE.

RESULTS OF PBT AND VPVB ASSESSMENT: NOT CLASSIFIED AS PBT OR VPVB.

OTHER ADVERSE EFFECTS: NONE KNOWN.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:
DISPOSAL SHOULD BE IN ACCORDANCE WITH LOCAL, STATE OR NATIONAL LEGISLATION.
CONSULT AN ACCREDITED WASTE DISPOSAL CONTRACTOR OR THE LOCAL AUTHORITY FOR
ADVICE.

SECTION 14: TRANSPORT INFORMATION

	U.S. DOT	SEA TRANSPORT (IMDG)	AIR TRANSPORT (ICAO/IATA)
UN NUMBER	1950	1950	1950
PROPER SHIPPING NAME	AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE
TRANSPORT HAZARD CLASS(ES)	2.1	2.1	2.1
PACKING GROUP	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
ENVIRONMENTAL HAZARDS	NONE ASSIGNED	NONE ASSIGNED	NONE ASSIGNED
SPECIAL PRECAUTIONS FOR USER	NONE ASSIGNED	NONE ASSIGNED	NONE ASSIGNED
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: NOT APPLICABLE			

SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE
SUBSTANCE OR MIXTURE:

TSCA (TOXIC SUBSTANCE CONTROL ACT) - INVENTORY STATUS:
ALL COMPONENTS LISTED OR POLYMER EXEMPT.

DESIGNATED HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4):

CHEMICAL NAME	CAS NO.	TYPICAL %WT.	RQ (POUNDS)
N-BUTANOL	71-36-3	0.3	5000

SARA 311/312 - HAZARD CATEGORIES:

- FIRE
- SUDDEN RELEASE
- REACTIVITY
- IMMEDIATE (ACUTE)
- CHRONIC (DELAYED)

SARA 313 - TOXIC CHEMICALS (40 CFR 372):

CHEMICAL NAME	CAS NO.	TYPICAL %WT.
ISOPROPANOL	67-63-0	33
N-BUTANOL	71-36-3	0.5

SARA 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

CHEMICAL NAME	CAS NO.	TYPICAL %WT.	TPQ (POUNDS)
NONE			

CALIFORNIA PROPOSITION 65 LIST:

CHEMICAL NAME	CAS NO.	TYPE OF TOXICITY
NONE		

SECTION 16: OTHER INFORMATION

THE FOLLOWING SECTIONS CONTAIN REVISIONS OR NEW STATEMENTS: 1-16.

DATE OF PREPARATION: SEPTEMBER 11, 2014

HAZARD STATEMENT(S) AND RISK PHRASES LISTED IN: SECTION 2:/SECTION 3:

HAZARD STATEMENT(S):

- H220: EXTREMELY FLAMMABLE GAS.
- H222: EXTREMELY FLAMMABLE AEROSOL.
- H225: HIGHLY FLAMMABLE LIQUID AND VAPOR.
- H226: FLAMMABLE LIQUID AND VAPOUR.
- H280: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
- H302: HARMFUL IF SWALLOWED.
- H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
- H315: CAUSES SKIN IRRITATION.
- H318: CAUSES SERIOUS EYE DAMAGE.
- H319: CAUSES SERIOUS EYE IRRITATION.
- H335: MAY CAUSE RESPIRATORY IRRITATION.
- H336: MAY CAUSE DROWSINESS OR DIZZINESS.
- H401: TOXIC TO AQUATIC LIFE.
- H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

TRAINING ADVICE: NONE.

DISCLAIMER:
WE BELIEVE THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS
CONTAINED HEREIN ARE RELIABLE, BUT THEY ARE GIVEN WITHOUT WARRANTY OR
GUARANTEE OF ANY KIND. THE INFORMATION CONTAINED IN THIS DOCUMENT APPLIES
TO THIS SPECIFIC MATERIAL AS SUPPLIED. IT MAY NOT BE VALID FOR THIS

MATERIAL IF IT IS USED IN COMBINATION WITH ANY OTHER MATERIALS. IT IS
THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND
COMPLETENESS OF THIS INFORMATION FOR THE USER'S OWN PARTICULAR USE.

REVISION: FEBRUARY 26, 2015