



GRAPHITE DRY LUBRICANT

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade Name Graphite Dry Lubricant
Product Code 8-GS
Revision Date 01/06/2016

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Lubricant

Company Identification The Blaster Corporation
8500 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

This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Hazard Symbol



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.



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Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Wear protective gloves/eye protection.

Wash hands and exposed skin after use.

Keep out of reach of children.

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Petroleum Distillate	30 - 40	Trade Secret	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Isopropanol	30 - 35	67-63-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Propane	15 - 20	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280
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.



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SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray.
Do not use water jet.

Special hazards arising from the substance or mixture

Highly flammable vapor (flash point below 23°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 °C / 122 °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)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Alkanes and cycloalkanes (C5 - C8)	-----	-----	1500 mg/m ³	-----	-----	-----
Alkanes and cycloalkanes (C9 - C15)	-----	-----	1200 mg/m ³	-----	-----	-----
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.#	-----	-----	#



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Recommended monitoring method	NIOSH 1550 (Naphthas); NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °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 (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not available
Flash Point (°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. 95×10^4 (Propane)
Vapor Density (Air=1)	ca. 1.56 @ 0°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 (°C)	450 (Propane)
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (@40°C)	0.49 mm ² /sec (Naphtha (petroleum) hydrotreated light)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available



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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°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: NOEAL >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:



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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 24hour(s): >10,000 mg/l (<i>Daphnia magna</i>)
Long Term	NOEC: 3.37 µmol/l (<i>Daphnia magna</i>) (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.
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SECTION 14: TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
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):



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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: June 11, 2015

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.

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