



# 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:	<a href="http://www.blastercorp.com">www.blastercorp.com</a>

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



**DANGER**

Signal word(s)

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.



# GRAPHITE DRY LUBRICANT

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.



# GRAPHITE DRY LUBRICANT

## 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/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.#	-----	-----	#



# GRAPHITE DRY LUBRICANT

## 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.  $95 \times 10^4$  (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<sup>2</sup>/sec (Naphtha (petroleum) hydrotreated light)

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

### Other information

Not available



# GRAPHITE DRY LUBRICANT

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources.
<b>Incompatible materials</b>	Strong oxidizing agents; Strong Acids; Aldehydes; Halogens; Amines; Halogenated Hydrocarbons, Alkalis. Do not use with aluminum equipment at temperatures exceeding 120°F.
<b>Hazardous decomposition product(s)</b>	Carbon monoxide, Carbon dioxide, Acid 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:

<b>Acute toxicity</b> (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.				
<b>Irritation/Corrosivity</b>	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.				
<b>Sensitization</b>	It is not a skin sensitizer.				
<b>Repeated dose toxicity</b>	Dermal: NOEL >2000 mg/kg bw (systemic effects) Inhalation: NOAEC = 1.4 mg/l (Vapor)				
<b>Carcinogenicity</b>	It is unlikely to present a carcinogenic hazard to man.				
<b>NTP</b> No.	<b>IARC</b> No.	<b>ACGIH</b> No.	<b>OSHA</b> No.	<b>NIOSH</b> No.	

<b>Mutagenicity</b>	Not to be expected
<b>Reproductive toxicity</b>	Not to be expected

Isopropanol (CAS# 67-63-0):

<b>Acute toxicity</b>	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.				
<b>Irritation/Corrosivity</b>	Irritating to eyes.				
<b>Sensitization</b>	It is not a skin sensitizer.				
<b>Repeated dose toxicity</b>	NOAEL = 5,000 ppm (Inhalation) May cause drowsiness or dizziness.				
<b>Carcinogenicity</b>	It is unlikely to present a carcinogenic hazard to man.				
<b>NTP</b> No.	<b>IARC</b> No.	<b>ACGIH</b> No.	<b>OSHA</b> No.	<b>NIOSH</b> No.	

<b>Mutagenicity</b>	There is no evidence of mutagenic potential.
<b>Reproductive toxicity</b>	Not available

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Petroleum distillate (CAS No. Trade Secret) - By analogy with similar materials:



## GRAPHITE DRY LUBRICANT

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)
<b>Persistence and degradability</b>	According to OECD criteria the product is not readily biodegradable but inherently biodegradable.
<b>Bioaccumulative potential</b>	The product has no potential for bioaccumulation.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

### Isopropanol (CAS# 67-63-0):

Short term	LC50 (96 hour): 10,000 mg/l (Fathead minnow ( <i>Pimephales promelas</i> )) LC50 24hour(s): >10,000 mg/l ( <i>Daphnia magna</i> )
Long Term	NOEC: 3.37 µmol/l ( <i>Daphnia magna</i> ) (Growth rate)
<b>Persistence and degradability</b>	Readily biodegradable.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	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>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
<b>UN number</b>	1950	1950	1950
<b>Proper Shipping Name</b>	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
<b>Transport hazard class(es)</b>	2.1	2.1	2.1
<b>Packing group</b>	Not applicable	Not applicable	Not applicable
<b>Environmental hazards</b>	None assigned	None assigned	None assigned
<b>Special precautions for user</b>	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):



## GRAPHITE DRY LUBRICANT

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.

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.