



# SAFETY DATA SHEET

## DRY GRAPHITE LUBRICANT

Conforms to GHS Version 7.0 HazCom Revisions

Print Date: 25-Mar-2026

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Version 3

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

Product Name Dry Graphite Lubricant

**Other means of identification**

Synonyms none

**Recommended use of the chemical and restrictions on use**

Uses advised against No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**

Zircon Industries Incorporated  
PO Box 24208  
Cleveland, OH 44124-9998  
216-595-0200

**E-mail address**

staff@liquidheat.com

**Emergency telephone number**

Emergency Telephone InfoTrac 1-800-535-5053

### 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin Corrosion / Irritation	Category 2
Serious Eye Irritation	Category 2A
STOT (Single exposure)	Category 3
STOT (Repeated exposure)	Category 2
Gasses under pressure	Category 1
Flammable Aerosol	Category 1
Flammable Liquid	Category 1

**Label elements**

Emergency Overview

**DANGER**



**Hazard statements**

- H315: Causes Skin Irritation
- H223: Extremely Flammable Aerosol
- H304: May be fatal if swallowed and enters airway
- H319: Causes eye damage/ irritation
- H280: Contains Gas Under Pressure; may explode if heated
- H373: May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

- P301+P316:** IF SWALLOWED: Get emergency medical help immediately..
- P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P332+P317:** If skin irritation occurs: Get medical help.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- P240:** Ground/bond container and receiving equipment.
- P241:** Use explosion-proof electrical/ventilating/lighting equipment.
- P242:** Use only non-sparking tools.
- P243:** Take precautionary measures against static discharge.
- P264:** Wash face, hands and any exposed skin thoroughly after handling
- P270:** Do not eat, drink or smoke when using this product
- P261:** Avoid breathing dust/fume/gas/mist/vapors/spray
- P272:** Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

- P308+P316:** IF EXPOSED or concerned: Get medical advice/attention
- P305+P354+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P302+P352:** IF ON SKIN: Wash with plenty of soap and water
- P332+P317:** If skin irritation or rash occurs: Get medical advice/attention
- P301+P316:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

**Precautionary Statements – Storage**

- P403:** Store in well-ventilated area
- P412:** Do not expose to temperatures above 50C / 122F

**Precautionary Statements - Disposal**

- P501:**Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not Applicable

Unknown Acute Toxicity                      0% of the substance or mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS No.	Weight-%	Trade Secret
2-Propanol	67-63-0	40-60	*

n-Butyl Alcohol	71-36-3	0-2	*
1-Methoxy-2-Propanol	107-98-2	1-5	*
Propane	74-98-6	10-20	*
Butane	106-97-8	10-20	*
Heptane	142-82-5	5-15	*
Toluene	108-88-3	0.5-1.5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### First aid measures

##### General advice

Immediate medical attention is required.

##### Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

##### Skin Contact

Wash off immediately with soap and plenty of water.

##### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

##### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

##### Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

##### Most important symptoms and effects, both acute and delayed

##### Symptoms

No information available.

##### Indication of any immediate medical attention and special treatment needed

##### Note to physicians

Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Dry chemical, CO2 or water spray.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

##### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

##### Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

##### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Cover liquid spill with sand, earth or other non-combustible absorbent material.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.  
**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Incompatible materials** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**  
 NIOSH IDLH *Immediately Dangerous to Life or Health*

**Appropriate engineering controls**

**Engineering Controls** Showers  
 Eyewash stations  
 Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety Glasses with Side Shields.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

**Exposure Limits**



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Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure	101.3mm/hg	
Vapor density		
Water solubility	Insoluble	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Explosive properties		No information available
Oxidizing properties		No information available
<b>Other Information</b>		
<b>Explosion severity</b>		
Danger of Explosion, cloud		No information available
Minimum Ignition Energy, Cloud, mJ		
KST, (cloud), bar.m.s-1		No information available
Pmax maximum explosion pressure, Cloud, bar		No information available
VMP, (cloud), bar.s-1		No information available
LOC Limiting Oxygen Concentration, Cloud, %v/v O2		No information available
Softening point		No information available
Molecular weight		No information available
Density		No information available
Bulk density		No information available
Specific Gravity	0.71 @ 25C	

## 10. STABILITY AND REACTIVITY

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### Chemical Stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### Conditions to avoid

Contact with incompatible materials. High temperatures

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon Dioxide, Carbon Monoxide

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Causes serious eye damage. Can be fatal if swallowed
<b>Inhalation</b>	Is a respiratory sensitizer.
<b>Eye contact</b>	Causes eye damage/irritation.
<b>Skin Contact</b>	Causes skin damage/irritation
<b>Ingestion</b>	Can be fatal if swallowed.

### Information on toxicological effects

2-Propanol	LD50 Dermal	Rabbit	12800mg/kg
	LD50 Oral	Rat	5000 mg/kg
Butane/Heptane	LC50 Vapor Inhalation	Rat	658000mg/kg
	LC50 Gas Inhalation	Rat	48000mg/kg
Toluene	LC50 Inhalation	Rat	49g/l
	LD50 Oral	Rat	636 mg/kg

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Sensitization

#### Germ cell mutagenicity

#### Carcinogenicity

No information or data specific to the product on this toxicological (health) effect is available.

#### Reproductive toxicity

#### STOT - single exposure

No information or data specific to the product on this toxicological (health) effect is available.

#### STOT - repeated exposure

No information or data specific to the product on this toxicological (health) effect is available.

available.  
**Target Organ Effects** Central nervous system, Eyes.  
**Aspiration hazard** No information or data specific to the product on this toxicological (health) effect is available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity – LC 50 Values**

<b>2-Propanol</b>	<b>Fish Rasbora Heteromorpha</b>	<b>4200mg/l</b>	<b>96 Hours</b>
<b>Heptane/Butanol</b>	<b>Fish Pimephales Promelas</b>	<b>173000 ug/l</b>	<b>96 Hours</b>
<b>Toluene</b>	<b>Fish Albumus Albumus</b>	<b>800000 ug/l</b>	<b>96 Hours</b>

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.  
**Contaminated packaging** Do not reuse container.

**14. TRANSPORT INFORMATION**

**DOT Proper Shipping Name:** Aerosols (flammable)

**IMDG** Aerosols(flammable). – **NOT A MARINE POLLUTANT**

**IATA:** Aerosols (flammable)

**DOT, IMDG, IATA Primary Hazard Class:** 2.1

**DOT, IMDG, IATA Packing Group:** II

**Label Required** 3

**UN Number** . **UN 1950**

**15. REGULATORY INFORMATION**

**International Inventories**

<b>AICS</b>	Yes
<b>DSL</b>	Yes
<b>NDSL</b>	No
<b>IECSC</b>	Yes
<b>EINECS</b>	Yes
<b>ELINCS</b>	No
<b>ENCS</b>	Yes
<b>KECL</b>	Yes
<b>PICCS</b>	Yes
<b>TSCA</b>	Yes (Registered Lautenberg 21st act)
<b>NZIoC</b>	Yes

**Legend:**

AICS - Australian Inventory of Chemical Substances  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 IECSC - China Inventory of Existing Chemical Substances  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 NZIoC - New Zealand Inventory of Chemicals

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
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**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

**CERCLA**

This material, as supplied, contains no substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**SARA 311/312 Hazardous**

Yes

**Classified hazard categories**

Eye Damage or Irritation, skin damage or irritation  
 Aspiration hazard, Flammable.

**California Prop 65**

None

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
<b><u>HMIS</u></b>	Health hazards 2*	Flammability 3	Physical hazards 0	Personal protection X

Revision Date 25-Mar-2026

**Revision Note**

[SDS sections updated \(\\*\\*\\*\) GHS Revision V 7.0](#)

**Disclaimer**

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**End of Safety Data Sheet**