

SAFETY DATA SHEET DRY GRAPHITE LUBRICANT #101 BULK

Print Date: 23-Apr-2019 Revision Date 23-Apr-2019 Version 2

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

Product identifier

Product Name Dry Graphite Lubricant #101 Bulk

Other means of identification

Synonyms none

Recommended use of the chemical and restrictions on use
Uses advised against
No information available

<u>Details of the supplier of the safety data sheet</u>
Supplier Address
Zircon Industries Incorporated
4920 Commerce Parkway #9
Cleveland, OH 44128
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
Eye Irritation	Category 2A
Aspiration Hazard	Category 1
Sensitizer	Category 2
Flammable Liquid	Category 2

Label elements

Emergency Overview

DANGER



Hazard statements

Causes Skin Irritation Extremely Flammable Liquid and Vapor May be fatal if swallowed Causes eye damage/ irritation

Precautionary Statements - Prevention

Flammable liquid and vapor

May be fatal if swallowed and enters airway.

Causes skin irritation.

Use personal protective equipment as required.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

IF EXPOSED or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store in well-ventilated area

Do not expose to temperatures above 50C / 122F

Precautionary Statements - Disposal

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	*

^{*}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.

<u>Inhalation</u> Move to fresh air. Call a physician if symptoms develop or persist..

Ingestion Rinse mouth. Get medical attention if symptoms occur.

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

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 upCover liquid spill with sand, earth or other non-combustible absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

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

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

children.

Incompatible materialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Storage Conditions

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.

2-Propanol

200 ppm 492 mg/m3 TLV ACGIH 400 ppm 984 mg/m3 STEL ACGIH 400 ppm 980 mg/m3 PEL OSHA 400 ppm 980 mg/m3 REL NIOSH 500 ppm 1225 mg/m3 STEL NIOSH

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid Odor threshold No information available

Appearance clear Odor alcohol

Color black

Property Values Remarks • Method

No information available На Melting point/freezing point No information available

Boiling point / boiling range No information available

Flash point below 73F

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 33mm/hg

Vapor density

Water solubility disperses

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

Other Information

Explosion severity Danger of Explosion, cloud No information available

Minimum Ignition Energy, Cloud, No information available mJ

KST, (cloud), bar.m.s-1 No information available

Pmax maximum explosion No information available pressure, Cloud, bar

VMP, (cloud), bar.s-1 No information available

LOC Limiting Oxygen No information available Concentration, Cloud, %v/v O2

Softening point No information available Molecular weight No information available No information available Density

Bulk density No information available **Specific Gravity** 0.84@ 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

Product Information Causes serious eye damage. Can be fatal if swallowed

Inhalation Is a respiratory sensitizer.

Eye contact Causes eye damage/irritation.

Skin Contact Causes skin damage/irritation

Ingestion Can be fatal if swallowed.

Information on toxicological effects

Symptoms No information available.

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.

Target Organ Effects Central nervous system, Eyes.

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

available.

English US OSHA

Numerical measures of toxicity - Product Information

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available

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: Aerosol (flammable)

IMDG Aerosol (flammable) - NOT A MARINE POLLUTANT

IATA: Aerosol (flammable)

DOT, IMDG, IATA Primary Hazard Class: 2.1

DOT, IMDG, IATA Packing Group: II

Label Required 3

UN Number . UN 1950

MAY QUALIFY FOR SMALL QUANTITY EXEMPTION

15. REGULATORY INFORMATION **International Inventories AICS** Yes DSL Yes **NDSL** No **IECSC** Yes **EINECS** Yes **ELINCS** No **ENCS** Yes **KECL** No **PICCS** Yes **TSCA** Yes (Registered Lautenberg 21st act) **NZIoC** 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

English US OSHA

Dry Graphite Lubricant #101 Bulk

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 %
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
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.

California Prop 65

SARA 311/312 Hazardous

Classified hazard categories

Yes

Eye Damage or Irritation, skin damage or irritation

Aspiration hazard, Flammable.

None

NFPA Health hazards 2 Flammability 3 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2* Flammability 3 Physical hazards 0 Personal protection X

Revision Date 23-Apr-2019

Revision Note

SDS sections updated (***) GHS Revision

Disclaimer

The information provided above is intended as a guide to assist in the safe handling, use, processing, storage, transportation, disposal and release of the material listed. Nothing contained herein is to be considered as an express or implied warranty of performance or quality. The information relates only to the specific material designated and may not be applicable when such material is used in combination with any other materials or as part of any process, except as otherwise expressly described herein. The information is believed to be true and correct as of the date issued. Always make sure you are using the most current information available. The material described herein is produced for commercial and industrial use only and unless otherwise specifically designated by the manufacturer in writing has not received any specific regulatory approval such as approvals for food contact or for use in medical/surgical applications or devices. It is buyer and user's sole and exclusive responsibility to ensure that any handling, use, processing, storage, transportation, disposal and release of the material complies with all applicable laws, rules and regulations.

End of Safety Data Sheet