

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Dry Graphite Lubricant
Product Code: 5200 06-193-12 **Product Type:** Aerosol
Product Use: Dry Film Lubricant

Manufacturer: Miracle Power Products Corp. **Revision Date:** 11/22/2013
Address: 1101 Belt Line
Cleveland, Ohio 44109 **Phone:** (216)741 1388

NOTE: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Eveready provides this information as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards. Eveready provides this information as guidance for providing personal protection to your employees.

2. Composition / Information on Ingredients

Ingredients	CAS #	Percent
Liquefied Petroleum Gas	68476-86-8	35-45 %
Acetone	67-64-1	40-50%
n-Butanol	67-64-1	<2%
Isopropanol	71-63-3	5-10%
Propylene Glycol Methyl Ether	107-98-2	<1%
Solid Lubricant (graphite)	7782-42-5	<3%

3. Hazards Identification

CAUTION! CONTENTS UNDER PRESSURE EXTREMELY FLAMMABLE

Odor/Appearance: Black mist as dispensed from aerosol can.

Potential health effects

Routes of exposure: Skin, eyes, inhalation, ingestion.

Eye Contact:

May cause immediate or delayed irritation. Irritation may show up as redness and/or swelling.
May cause corneal damage.

Skin Contact:

Repeated or prolonged contact with skin may produce redness, irritation and/or dryness. May cause or aggravate dermatitis or other existing skin condition.

Inhalation:

Inhalation of vapors or spray mist may cause headaches, and/or nose and throat irritation.

Ingestion:

Ingestion may cause irritation to the mouth, esophagus, and/or stomach.

Signs or Overexposure:

Irritation of eyes, nose, throat, digestive tract.

Pre-existing Conditions Aggravated:

Skin and respiratory disorders. Alcoholism, kidney, liver, cardiovascular and nervous system

4. First Aid Measures

Eye Contact:

Flush with warm water for 15 minutes. Seek medical attention.

Skin Contact:

Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation:

Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary.
Contact a physician.

Ingestion:

Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately. **DO NOT GIVE AN UNCONCIOUS OR CONVULSING PERSON ANYTHING BY MOUTH!**

5. Fire Fighting Measures

Flash Point: Flash point of propellant <0 degrees F.

Flammable limits in air, % by volume:

Upper: No Information

Lower: No Information

Extinguishing Media:

Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards:

This material may be ignited by extreme heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures:

At elevated temperatures (over 130F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions

Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling:

Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers Do not incinerate

Storage:

Store in a cool, dry area, away form heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment:

Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls:

General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

Respiratory Protection:

Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components is exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above 1000 ppm, an approved self-contained breathing apparatus or airline respirator with full face-piece is required

Other Suggested Equipment:

Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised:

Eveready. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Exposure guidelines:

Ingredients	CAS #	Percent	Exposure Limits
Liquefied Petroleum Gas	68476-86-8	35-45 %	OSHA (PEL) 1000 ppm ACGIH TLV 1000 ppm
Acetone	67-64-1	40-50%	OSHA (PEL) 1000 ppm ACGIH (TLV) 500 ppm
n-Butanol	67-64-1	<2%	OSHA (TWA)_ 100 ppm ACGIH (TWA) 20 ppm
Isopropanol	71-63-3	5-10%	OSHA (PEL) 400 ppm ACGIH (TLV) 200 ppm
Propylene Glycol Methyl Ether	107-98-2	<1%	OSHA (PEL) 100 ppm ACGIH (TWA) 100 ppm
Solid Lubricant (graphite)	7782-42-5	<3%	OSHA (TWA) 15 mppccf ACGIH (TLV)2mg/m3

9. Physical and Chemical Properties

Boiling Point: NA

Vapor Density: >1 (Air=1)

Odor/Appearance: Black mist as dispensed from aerosol can.

Evaporation Rate: Ether = 1 Slower

Specific Gravity: <1

Water Solubility: Emulsifies

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Heat, spark, and open flame

Incompatibility: Strong-Oxidizing Agents

Hazardous Decomposition: Combustion will produce Carbon Monoxide, Carbon Dioxide and nitrogen-oxygen compounds.

Hazardous Polymerization: Will not occur

11. Toxicological Information

Component Toxicological Information:

Acute oral toxicity

ACETONE	LD 50 Rat:	5,800 mg/kg
Isopropyl Alcohol	LD 50 Rat	5054 mg/kg
n-Butyl alcohol	LD 50 Rat	790 mg/kg
Propylene glycol ME	LD 50 Rat	6.6 g/kg

Acute inhalation toxicity

ACETONE	LC 50 Rat	> 16000 ppm, 4 h
Isopropyl Alcohol	LC rat	16,000 mg/l, 8 h
n-Butyl alcohol	LC50 Rat	16000 ppm 4 h
Propylene Glycol ME	LC 50 Rat	15000 ppm 4 h

Acute dermal toxicity

ACETONE	LD 50 Rabbit:	> 20,000 mg/kg
Isopropyl Alcohol	LD 50 rabbit:	12,800 mg/kg
N-Butyl alcohol	LD50Rabbit	3400
mg/k Prp;ylene glycol MELD50Rabbit	13	g/kg

12. Ecological Information

N/A

13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

14. Transport Information

Ground (US DOT) Consumer Commodity
Class ORM-D, ERG 126
Or
Aerosols (limited quantity),
Class 2.1, ERG 126

AIR (IAIA)

Consumer Commodity, Class 9, UN/ID 8000, Packing 1900, Authorization: Limited Quantity
Vessel
Aerosol (Limited Quantity), class 2, UN No 1950

15. Regulatory Information

Environmental Regulations

SARA 311/312:

Immediate (x) Delayed () Fire (x) Reactive () Sudden Release of Pressure (x)

Section 313

This product contains

Isopropyl Alcohol	67-63-0	5-10 %
N-butyl alcohol	71-36-3	<1%

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

BENZENE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

BENZENE

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Level 3 Aerosol

HMIS: Health: 1 Flammability: 4 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Eveready makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.