

SAFETY DATA SHEET

1. Product and Company Identification

Product Name: DGF 123

Product Code:

Product Type: Aerosol

Product Use: Dry Film Lubricant

Manufacturer: Miracle Power Products

Revision Date 3/18//2015

Address: 1101 Belt Line

Cleveland, Ohio 44109

Phone: (216)-661-2755

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. We provide 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. We provide this information as guidance for providing personal protection to your employees.

2. Hazard Identification

Classification of substance or mixture:

Aerosols	Category 1	
Gases under pressure	Liquefied gas	
Specific target organ toxicity, single exposure	Category 3	Central nervous system
Specific Target organ toxicity, Repeated exposure	Category 1	Skin
Aspiration Hazard	Category 1	
Eye Damage/Irritation	Category 1	
Skin Irritation	Category 2	
Skin Sensitization	Category 1	

GHS Label elements:

Pictograms



Signal Word: Danger

Hazard Statement(s)

H222	Extremely flammable aerosol
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

- H336 May cause drowsiness or dizziness
- H372 Causes damage to organs through prolonged repeated exposure
- H305 May be fatal if swallowed and enters airways

Precautionary Statements:

Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source
- P251 Do not pierce or burn, even after use.
- P260 Do not breathe dust /gas/mist vapours/spray
- P261 Avoid breathing dust/fume/gas/mist vapors/spray
- P264 Wash thoroughly after handling.
- P270 Do not eat drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P302+P352 If on skin: wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P301+P310 If Swallowed: Immediately call a poison center or doctor
- P331 Do not induce vomiting
- P304+P340 If Inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351 +P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312+P314 Call a poison center or doctor/physician if you feel unwell.
- P310 Immediately call a Poison Center/doctor if in eyes
- P403 Store in a well ventilated place.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F
- P405 Store locked up
- P501 Dispose of contents/container in accordance with local/regional regulations.

3. Composition Information on ingredients

Ingredients	CAS #	Percent
Acetone	67-64-1	40-50%
Liquified Petroleum Gas	68476-86-8	35-45%
Isopropyl Alcohol	67-63-0	8-12%
n-Butanol	71-36-3	<2%
Solid Lubricant	7782-42-5	<3%
1-methoxy-2 propanol	107-98-2	<1%

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:

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

5. Fire Fighting Measures

Flash Point: Flash point of liquid portion < 30°F

Flammable limits in air, % by volume:

Upper: 9.5%(vol) Gas in Air
Lower: 1.8% (vol) Gas in Air

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 exposure levels 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:

We. take 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 #	Exposure Limits
Liquefied Petroleum Gas	68476-86-8	OSHA (PEL) 1000 ppm ACGIHTLV 1000 ppm
Acetone	67-64-1	OSHA (PEL) 1000 ppm ACGIH (TLV) 500 ppm

n-Butanol	71-36-3	OSHA (TWA)_ 100 ppm ACGIH (TWA) 20 ppm
Isopropanol	67-63-0	OSHA (PEL) 400 ppm ACGIH (TLV) 200 ppm
Propylene Glycol Methyl Ether	107-98-2	OSHA (PEL) 100 ppm ACGIH (TWA) 100 ppm
Solid Lubricant (graphite)	7782-42-5	OSHA (TWA) 15 mppccf ACGIH (TLV)2mg/m3

9. Physical and Chemical Properties

Appearance: Black	Odor: Ether like
Evaporation Rate: Ether = 1 Slower	
PH: NA	Melting/Freezing point: NE
Initial Boiling point and boiling range: NE	Flash Point: Flash point of propellant <0°F
Flammability: NA	Vapor pressure: >30 psi
Vapor density >1 (Air=1)	
Relative density NE	Solubility: negligible
Partition coefficient: NE	Auto-ignition temperature: NE
Decomposition temperature: NE	Viscosity: NA
Flammable limits in air, % by volume: (propellant portion)	
Upper: 9.5%(vol) Gas in Air	
Lower: 1.8% (vol) Gas in Air	

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 hydrocarbons..	
Hazardous Polymerization: Will not occur	

11. Toxicological Information

Component 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
1-Methoxy-2-Propanol	LD 50 Rat	790mg/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	8000 ppm 4 h
1-Methoxy-2-Propanol	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
1-Methoxy-2-Propanol	LD50 Rabbit	13 g/kg

12. Ecological Information

Acetone

Toxicity to fish	LC50 – Oncorhynchus mykiss (rainbow trout) – 5,540 mg/l 96h
Toxicity to daphnia	LC50 Daphnia magna (water flea) – 8,800 mg/l 48h
Toxicity to algae	No data

Isopropanol

Toxicity to Fish	: LC 50 (pimephales promelas (fathead minnow)): 9,640 mg/l Exposure 96 h
Toxicity to daphnia	: EC50 (Daphnia magna (water flea)): 10,000 mg/l Exposure 24 h
Toxicity to bacteria	: tosicity threshold (pseudomonas putida): 1,050 mg/l Exposure 16 h

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

Aerosols (limited quantity),
Class 2.1, ERG 126

AIR (IATA)
Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950
Vessel

Aerosol (Limited Quantity), Class 2.1, UN No 1950

15. Regulatory Information

Environmental Regulations

SARA 302/304:

None

SARA 311/312:

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

Section 313

This product contains:

n-butyl alcohol 71-36-3

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: 2 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. We make 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.