Safety Data Sheet
DRY MOLY LUBE

SAF-T-LOK International Corporation

SDS Revision Date: 01/07/18

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity	DRY MOLY LUBE
Alternate Names	Part Numbers: 85856 Product Type: Lubricating Grease

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Lubricating Grease
Application Method	Aerosol

1.3. Details of the supplier of the safety data sheet

Company Name	SAF-T-LOK International Corporation 300 EISENHOWER LANE NORTH LOMBARD, IL 60148
Emergency	
CHEMTREC (USA)	(800) 262-8200 ID 1195
24 hour Emergency Telephone No.	(703) 527-3887
Customer Service: SAF-T-LOK International Corporation	(630) 495-2001

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Gases under pressure	Compressed gas
Category 2	Skin corrosion/ irritation
Category 3	Specific target organ toxicity (single exposure)
Category 1	Aspiration Toxicity
Category 1	Flammable aerosols
Category 2	Serious eye damage/ eye irritation
Category 2	Reproductive toxicity

2.2. Label elements

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Hazard Statements

Causes skin irritation

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

May cause drowsiness or dizziness

Causes damage to organs (respiratory system), through repeated exposure

May be fatal if swallowed or enters airways

Extremely flammable aerosol

Contains gas under pressure; may explode if heated

Appearance: Opaque **Physical State:** Aerosol **Odor:** Solvent

[Prevention]:

Obtain special instructions before use
Wash hands thoroughly after handling
Wear protective gloves, clothing, and eye and face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should be allowed out of work place
Do not eat drink or smoke while using this product
Use only outdoors or in well-ventilated area
Keep away from heat/spark/open flames/hot surfaces — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use

[Response]:

IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISEN CENTER or doctor/physician if you feel unwell
IF SWALLOWED: Immediately call a POISEN CENTER or doctor/physician
Do NOT induce vomiting

[Storage]:

Store locked up
Store in a well-ventilated place. Keep container tightly closed.
Protect from sunlight. Do not expose to temperature exceeding 50ºC / 122ºF

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[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Chemical Name	CAS-No	Weight %
PROPANE/ ISOBUTANE/ N-BUTANE	68476-86-8	40-50
ACETONE	67-64-1	30-40
ISOPROPYL ALCOHOL	67-63-0	10-20
MOLYBDENUM DISULFIDE	1317-33-5	1-10
GRAPHITE	7782-42-5	1-10
TOLUENE	108-88-3	0.1-1.0

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

4. First aid measures

4.1. Description of first aid measures

General Avoid contact with skin, eyes, and clothing. Avoid breathing, vapors, mist, or gas. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If irritation persists contact a physician

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview Irritating to skin and eyes. Inhalation causing Central Nervous System effects. Ingestion causing lung damage.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; Water fog, dry chemical, CO_2, cool containers/ tanks with water
DO NOT use a solid water stream it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Flammable or extremely flammable aerosol. Container may burst in fire.
Sensitive to Static Discharge.

5.3. Advice for fire-fighters

Air mask and procedures for fighting chemical fires. Do not inhale gases.

Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use with adequate ventilation to keep the exposure level below the OELS

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Report spills as required by local and federal regulations

6.3. Methods and material for containment and cleaning up

Prevent material from entering floor drains, sewers, or any bodies of water.
Scoop up into waste container or soak up with absorbent material. Store in a closed container until disposal.

7. Handling and storage

7.1. Precautions for safe handling

No special precautions necessary if used properly. Avoid breathing vapors. Wash hands thoroughly at mealtime and end of shift. AVOID CONTACT WITH EYES. Do not stick pin or sharp object into opening on top of can. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Isolated storage facility/ warehouse not required. Store in a cool, dry location (60-90°F) in a well-ventilated area in original container. Keep container tightly closed when not in use.

Incompatible materials: Strong Oxidizing Agents, AND Strong Acids.

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Aerosol level: 3

7.3. Specific end use(s)

None

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	74-98-6: TWA:1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6: TWA: 1000 ppm TWA: 1800 mg/m^3 (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m^3 106-97-8: (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m^3	74-98-6: IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3 106-97-8: TWA: 800 ppm TWA: 1900 mg/m^3 75-28-5: TWA: 800 ppm TWA: 1900 mg/m^3
ACETONE 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m^3 (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m^3 (vacated) STEL: 2400 mg/m^3 The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA 250 ppm TWA: 590 mg/m^3
GRAPHITE 7782-42-5	TWA: 2 mg/m^3 respirable fraction all forms except graphite fibers	TWA: 15 mg/m^3 total dust synthetic TWA: 5 mg/m^3 respirable fraction synthetic (vacated) TWA: 2.5 mg/m^3 respirable dust natural (vacated) TWA:10 mg/m^3 total dust synthetic (vacated) TWA: 5 mg/m^3 respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m^3 TWA: 2.5 mg/m^3 natural respirable dust
ISOPROPYL ALCOHOL 67-63-0	STEL: 400 ppm TWA: 200 pmm	TWA: 400 ppm TWA: 980 mg/m^3 (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m^3 (vacated) STEL: 500 ppm (vacated) STEL: 1000 ppm	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m^3 STEL: 500 ppm STEL: 1225 mg/m^3
MOLYBDENUM DISULFIDE 1317-33-5	TWA: 10 mg/m^3 Mo inhalable fraction TWA: 3 mg/m^3 Mo respirable fraction	TWA: 15 mg/m3 total dust (vacated) TWA: 10 mg/m^3 Mo	IDLH: 5000 mg/m^3 Mo
TOLUENE 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm	IDLH: 500 ppm TWA: 100 ppm

		(vacated) TWA: 375 mg/m^3 (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m^3 Ceiling: 300 ppm	TWA: 375 mg/m^3 STEL: 150 ppm STEL: 560 mg/m^3

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F. 2d 962 (11th Cir., 1992).

8.2. Exposure controls

Respiratory	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.
Eyes	Safety glasses with side-shields.
Skin	Chemical resistant apron. Protective gloves.
Engineering Controls	Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.
Other Work Practices	Eye wash stations should be located within 100 feet or 10 second walk of the work area. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Vacated limits revoked by the court appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Dark Grey
Odor	Solvent
Odor threshold	Not Measured
pH	Not determined
Melting point / freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash Point C.O.C	15ºF
Evaporation rate (Ether = 1)	Not determined
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** N/A **Upper Explosive Limit:** N/A
Vapor pressure (Pa)	N/A
Vapor Density	N/A
Specific Gravity	0.7

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Solubility in Water	Practically Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	53.16

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Extremes of temperature and direct sunlight

10.5. Incompatible materials

Strong oxidizing agents and acids

10.6. Hazardous decomposition products

Oxides of carbon

Acute toxicity

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Product Information:	Product does not present an acute toxicity hazard based on known information
Inhalation:	Exposure to high vapor concentrations may cause nervous systems effects such as headache, nausea, and dizziness.
Eye Contact:	May cause irritation
Skin Contact:	Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion:	Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal

Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone 67-64-1	=5800 mg/kg	20,000 mg/kg (Rabbit)	= 50,100 mg/m^3 (rat) 8 h
Isopropyl Alcohol	=1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	+72600 mg/m^3 (Rat) 4h
Molybdenum Disulfide 1317-33-5	--	--	>2820 mg/m^3 (Rat 4h
Toluene 108-88-3	= 2600 mg/kg (Rat)	=1200 mg/kg (Rabbit)	=12.5 mg/L (Rat) 4h

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12. Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Chemical Name	Toxicity to fish	Toxicity to Algea	Toxicity to daphnia and other aquatic invertebrates
Acetone 67-64-1	4.74 -6.33 mL/L LC50 Oncorhynchus mykiss 96h 6210 – 8120 mg/L/L LC50 Pimephales promelas 96h static 8300 mg/L LC50 Lepomis macrochirus 96h	--	10294 – 17704 mg/L EC50 Daphnia magna 48h Static 12600 – 12700 mg/L EC50 Daphnia Magna 48h
Isopropyl Alcohol 67-63-0	11130 mg/L LC50 Pimephales promelas 96h static 9640 mg/L LC50 Pimephales promelas 96h flow through 1400000 ug/L LC50 lepomis macrochirus 96h	1000 mg/L EC 50 Desmodesmus subspicatus 96h 1000 mg/L EC50 Desmodesmus subspicatus 72h	13299 mg/L EC50 Daphnia magna 48h
Toluene 108-88-3	11.0 – 15.0 mg/L LC50 Lepomis macrochirus 96h static 14.1 – 17.16 mg/L LC50 Oncorhynchus mykiss 96h static 15.22 – 19.05 mg/L LC50 pimephales promelas 96h flow through 5.89 – 7.81 mg/L LC50 Oncorhynchus mykiss 96h flow through 50.87 – 70.34 mg/L LC50 Poecilia reticulata 96h static 12.6 mg/L LC50 pimephales promelas 96h static 28.2 mg/L LC50 Poecilia reticulata 96h semi-static 5.8 mg/L LC50 Oncorhynchus mykiss 96h semi-static 54 mg/L LC50 Oryzias latipes 96h static	433 mg/L EC50 Pseudokirchneriella 96h 1000 mg/L EC50 Desmodesmus subspicatus 72h	5.46 – 9.83 mg/L EC50 Daphnia magna 48h static 11.5 mg/L EC50 Daphnia magna 48h
Propane/Isobutane/N-butane 68476-86-8	--	--	--

Chemical Name	Log Pow
Propane/isobutene/N-butane 68476-86-8	2.8
Acetone 67-64-1	-0.24
Isopropyl Alcohol	0.05

67-63-0	
Toluene 108-88-3	2.65

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance. Do not re-use empty containers.

14. Transport information

DOT Ground	Consumer commodity ORM-D or Limited quantity
IATA	UN1950, aerosols, flammable, 2.1, LTD. QTY
IMDG	UN1950, aerosols, 2.1, LTD. QTY

15. Regulatory information

Chemical name	TSCA	DSL/NDSL	EINEC/ELINCS	ENCS	IECS	KECL	PICCS	AICS
Propane/isobutene/N-butane	X	X	X	Not listed	X	X	X	X
Acetone	X	X	X	X	X	X	X	X
Isopropyl Alcohol	X	X	X	X	X	X	X	X
Molybdenum Disulfide	X	X	X	X	X	X	X	X
Graphite	X	X	X	Not listed	X	X	X	X
Toluene	X	X	X	X	X	X	X	X

SARA 313

Section 313 is Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains 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	CAS-No	Weight %	SARA 313- Threshold Values %
Isopropyl Alcohol	67-63-0	10-20	1.0
Toluene	108-88-3	0.1-1.0	1.0

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

Proposition 65 - Carcinogens (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):
Toluene

Proposition 65 - Female Repro Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):
(No Product Ingredients Listed)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the comprehensive Environmental Response Compensation and Liability Act. This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act or the Superfund Amendments and Reauthorization Act. There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substance RQs	Extremely Hazardous Substances RQs	RQ
ACETONE 67-64-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
TOLUENE 108-88-3	1000 lb 1lb		RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

16. Other information

NFPA **Health Hazard**: 2 **Flammability**: 4 **Instability**: 0 **Physical and chemical hazards: -**

HMIS **Health Hazard:** 2 **Flammability:** 4 **Physical Hazard: 1** **Personal Protection:** B

The full text of the phrases appearing in section 3 is:

H312 Harmful in contact with skin.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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