

SDS Revision Date:

01/07/2018

International Corporation

1. Identification

1.1. Product identifier

Product Identity DRY MOLY FILM
Alternate Names 80845, 80865

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

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

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) 424-9300

 24 hour Emergency Telephone No.
 (703) 527-3887

 Customer Service: SAF-T-LOK International
 (630) 495-2001

Corporation

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Liq. 2;H225 Highly Flammable liquid and vapor. Eye Irrit. 2;H319 Causes serious eye irritation.

Repr. 2;H361D Suspected of damaging the unborn child. STOT SE 3;H336 May cause drowsiness or dizziness.

2.2. Label elements



Danger

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

SAF-T-LOK

SDS Revision Date:

01/07/2018

International Corporation

H361d Suspected of damaging the unborn child.

[Prevention]:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat / sparks / open flames / hot surfaces No smoking.
- P233 Keep container tightly closed.
- P240 Ground / bond container and receiving equipment.
- P241 Use explosion-proof electrical / ventilating / light / equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves / eye protection / face protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

[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.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Isopropyl Alcohol CAS Number: 0000067-63-0	25 - 50	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Molybdenum sulfide CAS Number: 0001317-33-5	10 - 25	Not Classified	[1]



SDS Revision Date:

01/07/2018

International Corporation

Graphite CAS Number: 0007782-42-5	10 - 25	Combustible Dust	[1][2]
Acetone CAS Number: 0000067-64-1	10 - 25	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Calcium Fluoride CAS Number: 0007789-75-5	10 - 25	Not Classified	[1]
Ethyl cellulose CAS Number: 0009004-57-3	5 - 10	Not Classified	[1]
Toluene CAS Number: 0000108-88-3	0.10 - 1.0	Flam. Liq. 2;H225 Repr. 2;H361d Asp. Tox. 1;H304 STOT RE 2;H373 Skin Irrit. 2;H315 STOT SE 3;H336	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1. Description of first aid measures

General 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.

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

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

^[1] Substance classified with a health or environmental hazard.

^[2] Substance with a workplace exposure limit.

^[3] PBT-substance or vPvB-substance.

^{*}The full texts of the phrases are shown in Section 16.

SAF-T-LOK

SDS Revision Date:

01/07/2018

International Corporation

Inhalation May cause drowsiness or dizziness.

Eyes Causes serious eye irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Carbon Dioxide, Foam, Dry Chemicals.

5.2. Special hazards arising from the substance or mixture

Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

Hazardous decomposition: May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep container tightly closed.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

5.3. Advice for fire-fighters

Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Wear self-contained breathing apparatus and full protective clothing.

ERG Guide No. 127

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

Clean up area with absorbent material. Store in a closed container until disposal.



SDS Revision Date:

01/07/2018

International Corporation

7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and mist.. Wash hands thoroughly at mealtime and end of shift. Keep area ventilated – do not smoke.

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

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool location (60-90°F) in a well ventilated area away from sources of heat or other sources of ignition.. Do not puncture or Incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes.

Incompatible materials: Strong oxidizing agents See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

Avoid breathing vapors. Wash hands thoroughly at mealtime and end of shift. Wear personal protective equipment as outlined in Section 8 of this SDS.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000067-63-0 Isopropyl Alcohol		OSHA	TWA 400 ppm (980 mg/m3) STEL 500 ppm
		ACGIH	TWA: 200 ppm STEL: 400 ppm Revised 2003,
		NIOSH	TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)
		Supplier	No Established Limit
0000067-64-1	Acetone	OSHA	TWA 1000 ppm (2400 mg/m3) STEL 2400 mg/m3
		ACGIH	TWA: 500 ppm STEL: 750 ppm
		NIOSH	250 ppm (590 mg/m3) TWA
		Supplier	No Established Limit
0000108-88-3 Toluene		OSHA	TWA (OSHA) 200 ppm C 300 ppm 500 ppm (10-minute maximum peak) STEL 150 ppm
		ACGIH	TWA: 20 ppm R
		NIOSH	TWA 100 ppm (375 mg/m3) ST 150 ppm (560 mg/m3)
		Supplier	No Established Limit
0001317-33-5	Molybdenum sulfide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

SAF-T-LOK

SDS Revision Date:

01/07/2018

International Corporation

0007782-42-5	782-42-5 Graphite		TWA 15 mg/m3 TWA 15 mppcf
		ACGIH	TWA: 2 mg/m3
			TWA 2.5 mg/m3 (resp)
		Supplier	No Established Limit
0007789-75-5	Calcium Fluoride	OSHA	No Established Limit
	ACGIH	No Established Limit	
		NIOSH	No Established Limit
	Supplier	No Established Limit	
0009004-57-3	Ethyl cellulose	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the

appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin Wear overalls to keep skin contact to a minimum. Not required, but if desired, use

impermeable gloves (neoprene, butyl rubber, and natural rubber), as necessary to avoid skin contact, as well as proper clothing or plastic apron. Wash hands before eating,

drinking, or using restroom.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the

use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits

suitable respiratory protection must be worn.

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.

See section 2 for further details.

9. Physical and chemical properties

AppearanceDark Grey LiquidOdorNot Provided.Odor thresholdNot determined

pH N/A

Melting point / freezing point N/A

Initial boiling point and boiling range 133°F

Flash Point 0°F (SCC)

Evaporation rate (Ether = 1) N/A

Flammability (solid, gas) Not Applicable



SDS Revision Date:

01/07/2018

International Corporation

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

Solubility in Water

1.31 gm/cc
Partial

Partition coefficient n-octanol/water (Log Kow)Not MeasuredAuto-ignition temperatureNot MeasuredDecomposition temperatureNot MeasuredViscosity (cSt)Not Measured

Viscosity (cSt) Not Measu VOC Content 36.89%

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.



SDS Revision Date:

01/07/2018

International Corporation

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Isopropyl Alcohol - (67-63-0)	4,710.00, Rat - Category: 5	12,800.00, Rat - Category: NA	72.60, Rat - Category: NA	No data available	No data available
Molybdenum sulfide - (1317-33-5)	No data available	No data available	No data available	2.82, Rat - Category: 4	No data available
Graphite - (7782-42-5)	No data available	No data available	No data available	No data available	No data available
Acetone - (67-64-1)	5,800.00, Rat - Category: NA	7,426.00, Guinea Pig - Category: NA	76.00, Rat - Category: NA	50.10, Rat - Category: NA	No data available
Calcium Fluoride - (7789-75-5)	4,250.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Ethyl cellulose - (9004-57-3)	5,000.00, Rat - Category: 5	5,000.00, Rabbit - Category: 5	No data available	No data available	No data available
Toluene - (108-88-3)	636.00, Rat - Category: 4	8,400.00, Rabbit - Category: NA	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value			
0000067-63-0	Isopropyl Alcohol	OSHA	Select Carcinogen: No			
		NTP	Known: No; Suspected: No			
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;			
0000067-64-1	Acetone	OSHA	Select Carcinogen: No			
		NTP	Known: No; Suspected: No			
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;			
0000108-88-3	Toluene	OSHA	Select Carcinogen: No			
		NTP	Known: No; Suspected: No			
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;			
0001317-33-5	Molybdenum sulfide	OSHA	OSHA Select Carcinogen: No			
		NTP	Known: No; Suspected: No			
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;			
0007782-42-5	Graphite	OSHA	Select Carcinogen: No			
		NTP	Known: No; Suspected: No			
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;			

SAF-T-LOK

SDS Revision Date:

01/07/2018

International Corporation

0007789-75-5	Calcium Fluoride	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0009004-57-3	Ethyl cellulose	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Classification	Category	Hazard Description	
Acute toxicity (oral)		Not Applicable	
Acute toxicity (dermal)		Not Applicable	
Acute toxicity (inhalation)		Not Applicable	
Skin corrosion/irritation		Not Applicable	
Serious eye damage/irritation	2	Causes serious eye irritation.	
Respiratory sensitization		Not Applicable	
Skin sensitization		Not Applicable	
Germ cell mutagenicity		Not Applicable	
Carcinogenicity		Not Applicable	
Reproductive toxicity	2	Suspected of damaging the unborn child.	
STOT-single exposure	3	May cause drowsiness or dizziness.	
STOT-single exposure		Not Applicable	
STOT-repeated exposure		Not Applicable	
Aspiration hazard		Not Applicable	

12. Ecological information

12.1. Toxicity

Harmful to aquatic life.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Isopropyl Alcohol - (67-63-0)	1,400.00, Lepomis macrochirus	100.00, Daphnia magna	100.00 (72 hr), Scenedesmus subspicatus
Molybdenum sulfide - (1317-33-5)	Not Available	Not Available	Not Available
Graphite - (7782-42-5)	Not Available	Not Available	Not Available
Acetone - (67-64-1)	100.00, Pimephales promelas	10.00, Daphnia magna	20.565 (72 hr), Ulva pertusa

SAF-T-LOK

SDS Revision Date:

01/07/2018

International Corporation

Calcium Fluoride - (7789-75-5)	324.00, Cyprinus carpio	3.30, Daphnia magna	43.00 (96 hr), Scenedesmus subspicatus
Ethyl cellulose - (9004-57-3)	Not Available	Not Available	Not Available
Toluene - (108-88-3)	5.80, Oncorhynchus mykiss	19.60, Daphnia magna	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

DOT (Domestic Surface Transportation)

DOT Hazard Class: 3

14.1. UN number **UN 1090** 14.2. UN proper shipping UN1090, Acetone, 3, II

name

14.3. Transport hazard

class(es)

14.4. Packing group

14.5. Environmental hazards

IMDG Marine Pollutant: No;

14.6. Special precautions for user

No further information

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IMO / IMDG (Ocean ICAO/IATA

Transportation) UN1090

UN1090 Acetone Acetone

IMDG: 3 Air Class: 3

Sub Class: Not Applicable

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SDS Revision Date:

01/07/2018

International Corporation

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected

regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA

Inventory.

WHMIS Classification D2A

US EPA Tier II Hazards Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes Delayed (Chronic): No

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Isopropyl Alcohol

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

Toluene

Proposition 65 - Female Repro Toxins (>0.0%):

Toluene

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. Other information

SDS Revision Date 02/24/2017

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

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

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

SAF-T-LOK

SDS Revision Date:

01/07/2018

International Corporation

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

The information on this material safety data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user. SAF-T-LOK International Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of SAF-T-LOK International Corporation products.

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