

## Issue Date: 01-Sep-2012

Revision Date: 01-Jan-2015

Version 2

Safety Data Sheet

	1. IDENTIFICATION	
Product Identifier Product Name	D.F.L. Dry Film Lube Mold Release	
Other means of identification SDS #	41112N	
Product Code Synonyms	41112N Slide Dry Film Lubricant Low Molecular Weight PTFE Dispersion.	
UN/ID No Other Information	UN1950 Formula: 53122.	
Recommended use of the chemica Recommended Use	l and restrictions on use Industrial mold release.	
Details of the supplier of the safety Supplier Address Slide Products Inc. 430 S. Wheeling Road Wheeling, IL 60090	data sheet	
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	Phone: 1-847-541-7220 Fax: 1-847-541-7986 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)	
	2. HAZARDS IDENTIFICATION	
Appearance Milky white dispersion	Physical State Aerosol	Odor Slight alcoho
<u>Classification</u>		
Flammable Aerosols		Category 2
<u>Signal Word</u> Warning		
Hazard Statements Flammable Aerosol		

### Precautionary Statements - Prevention

Keep away from heat/sparks/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

### Precautionary Statements - Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms

Slide Dry Film Lubricant Low Molecular Weight PTFE Dispersion.

Chemical Name	CAS No	Weight-%
Dimethyl ether	115-10-6	45-55
1,1 difluoroethane	75-37-6	45-55
PTFE Solid	9002-84-0	1-5
Isopropyl alcohol	67-63-0	1-6

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.	
Skin Contact	Wash with soap and water.	
Inhalation	Remove to fresh air.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects		
Symptoms	Inhalation symptoms may include dizziness and headache. Nausea. Concentrated spray may cause freezing of skin area. Direct contact with eyes may cause temporary irritation.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

#### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Aerosols may rupture violently at temperatures above 120 F. Aerosol flame projection test: 10-12" flame projection.

Hazardous Combustion Products Hydrogen chloride. Hydrogen fluoride. Traces of phosgene upon pyrolysis.

#### 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	
Personal Precautions	Use personal protective equipment as required.	
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.	
Methods and material for contain	nent and cleaning up	
Methods for Containment	Remove leaking container to outside disposal site. Remove all sources of ignition.	
Methods for Clean-Up	Keep in suitable, closed containers for disposal.	
	7. HANDLING AND STORAGE	
Precautions for safe handling	7. HANDLING AND STORAGE	
Precautions for safe handling Advice on Safe Handling	7. HANDLING AND STORAGE Keep away from heat/sparks/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. Do not drop, puncture, or incinerate. Do not spray on floors.	
	Keep away from heat/sparks/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. Do not drop, puncture, or incinerate. Do not spray on floors.	
Advice on Safe Handling	Keep away from heat/sparks/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. Do not drop, puncture, or incinerate. Do not spray on floors.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Threshold Limit Value: 400 ppm

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

## Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Proper eye care is needed in all industrial operations.
Skin and Body Protection	Protective gloves are not required, but recommended.

Slight alcohol Not determined

**Respiratory Protection** 

No protection is ordinarily required under normal conditions of use and with adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Appearance Color	Aerosol Milky white dispersion Milky white	Odor Odor Threshold
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties Density	ValuesNot determined $< -45 \ ^{\circ}C / <-50 \ ^{\circ}F$ Not availableNot applicableExtremely rapidFlammable aerosol25.0%4.0%Not availableNot availableNot available1.0Not solubleNot determinedNot de	<u>Remarks • Method</u> (Water = 1)

**10. STABILITY AND REACTIVITY** 

### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Hazardous Polymerization

Hazardous polymerization does not occur.

## **Conditions to Avoid**

High heat or open flames.

#### Incompatible Materials

Powdered or alkaline earth metals.

#### Hazardous Decomposition Products

Hydrogen chloride. Hydrogen fluoride. Traces of phosgene upon pyrolysis.

## **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information	
Eye Contact Skin Contact	Avoid contact with eyes. Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

### Component Information

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether 115-10-6	-	-	= 308.5 mg/L (Rat)4 h
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat)= 12870 mg/kg (Rabbit)	= 72.6 mg/L (Rat)4 h

#### Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure\_

Carcinogenicity

Isopropyl Alcohol (IPA) is listed as an IARC Monograph Group 3 chemical. However, IARC Group 3 chemicals are "not classifiable as human carcinogens". IPA is classified as an IARC Group 1 chemical ONLY when manufactured by the strong-acid process. The IPA used in this product is NOT manufactured by the strong-acid process and is therefore not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		Х

#### Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

### Numerical measures of toxicity

Not determined

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow- through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50

## Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

## <u>Mobility</u>

Chemical Name	Partition Coefficient
Dimethyl ether 115-10-6	-0.18
Isopropyl alcohol 67-63-0	0.05

## Other Adverse Effects

Not determined

# 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	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol	Toxic
67-63-0	Ignitable

14. TRANSPORT INFORMATION						
<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Based on package size, product may be eligible for limited quantity exception.					
DOT UN/ID No	(each not exceeding 1 L capacity) UN1950					
Proper Shipping Name	Aerosols					
Hazard Class	2.1					
ΙΑΤΑ						
UN/ID No	UN1950					
Proper Shipping Name	Aerosols, flammable					
Hazard Class	2.1					
IMDG						
UN/ID No	UN1950					
Proper Shipping Name	Aerosols					
Hazard Class	2.1					
	15. REGULATORY INFORMATION					
International Inventories						

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dimethyl ether	Present	Х		Present		Present	Х	Present	Х	Х
1,1 difluoroethane	Present	Х		Present		Present	Х	Present	Х	Х
PTFE Solid	Present	Х		Present				Present		Х
Isopropyl alcohol	Present	Х		Present		Present	Х	Present	Х	Х

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

## SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	3	1.0

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dimethyl ether 115-10-6	Х	Х	Х
1,1 difluoroethane 75-37-6	Х	X	
Isopropyl alcohol 67-63-0	Х	X	Х

## **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	<b>Health Hazards</b> Not determined <b>Health Hazards</b> 1	Flammability Not determined Flammability 3	<b>Instability</b> Not determined <b>Physical Hazards</b> 0	<b>Special Hazards</b> Not determined <b>Personal Protection</b> B
Issue Date: Revision Date:	01-Sep- 01-Jan-:			

New format

#### **Disclaimer**

**Revision Note:** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**