

Safety Data Sheet

Issue Date: 01-Sep-2012 Revision Date: 03-Jan-2014 Version 1

1. IDENTIFICATION

Product Identifier

Product Name D.F.L. Dry Film Lube Mold Release

Other means of identification

SDS # 41112N

Product Code 41112N

Synonyms Slide Dry Film Lubricant

Low Molecular Weight PTFE Dispersion.

UN/ID No UN1950

Other Information Formula: 53122.

Recommended use of the chemical and restrictions on use
Recommended Use

Dry film lubricant release.

Details of the supplier of the safety data sheet

Supplier Address Slide Products Inc. 430 S. Wheeling Road Wheeling, IL 60090

Emergency Telephone Number

Company Phone Number Phone: 1-847-541-7220

Fax: 1-847-541-7986

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Milky white dispersion Physical State Aerosol Odor Slight alcohol

Classification

Flammable Aerosols Category 2

Signal Word Warning

<u>Hazard Statements</u> 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	68604-99-9	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.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment 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

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Do not expose to

temperatures exceeding 50 °C/122°F. Protect from direct sunlight.

Incompatible Materials Powdered or alkaline earth metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Threshold Limit Value: 400 ppm

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

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.

Respiratory ProtectionNo 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 Aerosol

AppearanceMilky white dispersionOdorSlight alcoholColorMilky whiteOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not determined

Melting Point/Freezing Point < -45 °C / <-50 °F

Boiling Point/Boiling Range
Flash Point Not available
Flash Point Not applicable
Evaporation Rate Extremely rapid

Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit

4.0%

Vapor PressureNot availableVapor DensityNot available

Specific Gravity 1.0 (1=Water)

Water Solubility Not soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

Density Weight per gallon: 8.37

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 Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

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		Group 3		X
67-63-0				

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

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Ecotoxicity

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

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

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

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

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14. TRANSPORT INFORMATION

Note 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

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limited quantity exception.

DOT (each not exceeding 1 L capacity)

UN/ID No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1

IATA

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

TSCA Listed

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

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	1-6	1.0

US State Regulations

U.S. State Right-to-Know Regulations

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

16. OTHER INFORMATION

NFPA Health Hazards

Not determined Health Hazards Flammability
Not determined
Flammability

Instability
Not determined
Physical Hazards

Special Hazards Not determined Personal Protection

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Disclaimer

HMIS

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
