

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

SDS # 41112N-EU  
Product Code 41112N  
Product Name D.F.L. Dry Film Lube Mold Release  
Formula 53122

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use Industrial mold release

### 1.3. Details of the Supplier of the Safety Data Sheet

#### Supplier

Slide Products Inc.  
430 S. Wheeling Road  
Wheeling, IL 60090 USA

#### For further information, please contact

Contact Point Slide Products: 1-847-541-7220  
Email Address info@slideproducts.com

### 1.4. Emergency telephone number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Flammable Aerosols	Category 2
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Classification according to 67/548/EEC

Full text of R-phrases: see section 16

#### R-code(s)

R10

### 2.2. Label Elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP].



**Signal Word**

Warning

**Hazard Statements**

H223 - Flammable aerosol

EUH210 - Safety data sheet available on request

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**2.3. Other Hazards****General Hazards**

None known

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Dimethyl ether	Present	115-10-6	45-55	F+; R12	Flam. Gas 1 (H220) Press. Gas (H280)	Not determined
1,1 difluoroethane	Present	75-37-6	45-55	F+; R12	Liq. Gas (H280) Flam. Gas 1 (H220)	Not determined
PTFE Solid	Present	9002-84-0	1-5	-	Not determined	Not determined
Isopropyl alcohol	Present	67-63-0	1-6	F; R11 Xi; R36 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	Not determined

**Full text of R-phrases: see section 16****Full text of H- and EUH-phrases: see section 16****Additional Information**

Substances which do not meet the criteria for classification are included in order to provide full disclosure of the product

**Section 4: FIRST AID MEASURES****4.1. Description of First Aid Measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.
<b>Skin Contact</b>	Wash with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

**4.2. Most Important Symptoms and Effects, Both Acute and Delayed**

<b>Symptoms</b>	Inhalation symptoms may include dizziness and headache. Nausea. Concentrated spray may cause freezing of skin area. Direct contact with eyes may cause temporary irritation.
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**4.3. Indication of any Immediate Medical Attention and Special Treatment Needed**

**Notes to Physician** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing Media****Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam.

**Unsuitable Extinguishing Media**

Not determined.

**5.2. Special Hazards Arising from the Substance or Mixture**

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.

**5.3. Advice for Firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Use personal protective equipment as required.

**For Emergency Responders**

Use personal protection recommended in Section 8.

**6.2. Environmental Precautions**

See Section 12 for additional Ecological Information.

**6.3. 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.

**6.4. Reference to Other Sections**

See Section 13: DISPOSAL CONSIDERATIONS.

**Section 7: HANDLING AND STORAGE****7.1. 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.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. 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.

**7.3. Specific End Use(s)****Specific Use(s)**

Industrial mold release.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control Parameters****Exposure Limits**

Threshold Limit Value: 400 ppm.

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Dimethyl ether 115-10-6	TWA 1000 ppm TWA 1920 mg/m <sup>3</sup>	STEL: 500 ppm STEL: 958 mg/m <sup>3</sup> TWA: 400 ppm TWA: 766 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> Ceiling / Peak: 8000 ppm Ceiling / Peak: 15200 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0		STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup> TWA: 400 ppm TWA: 999 mg/m <sup>3</sup>	STEL: 400 ppm STEL: 980 mg/m <sup>3</sup>	STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup> TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> Ceiling / Peak: 400 ppm Ceiling / Peak: 1000 mg/m <sup>3</sup>
Component	Italy	Portugal	Netherlands	Finland	Denmark
Dimethyl ether 115-10-6 ( 45-55 )	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>		STEL: 1500 mg/m <sup>3</sup> TWA: 950 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 2000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0 ( 1-6 )		STEL: 400 ppm TWA: 200 ppm		TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 620 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 490 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Dimethyl ether 115-10-6	STEL 2000 ppm STEL 3820 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1910 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1910 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 384 mg/m <sup>3</sup> STEL: 250 ppm STEL: 480 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	STEL 800 ppm STEL 2000 mg/m <sup>3</sup> TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup> TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	STEL: 1200 mg/m <sup>3</sup> TWA: 900 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 245 mg/m <sup>3</sup> STEL: 150 ppm STEL: 306.25 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm Skin

**8.2. Exposure Controls****Engineering Controls**

Apply technical measures to comply with the occupational exposure limits.

**Personal Protective Equipment****Eye/Face Protection**

Proper eye care is needed in all industrial operations.

**Hand Protection**

Protective gloves are not required, but recommended.

**Skin and Body Protection**

Suitable protective clothing.

**Respiratory Protection**

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

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Aerosol	<b>Odor</b>	Slight alcohol
<b>Appearance</b>	Milky white dispersion	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Milky white		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	Not determined		
<b>Melting Point/Freezing Point</b>	< -45 °C / <-50 °F		
<b>Boiling Point/Boiling Range</b>	Not available		
<b>Flash Point</b>	Not applicable		
<b>Evaporation Rate</b>	Extremely rapid		
<b>Flammability (Solid, Gas)</b>	Flammable aerosol		
<b>Flammability Limits in Air</b>			
<b>Upper Flammability Limits</b>	25.0%		
<b>Lower Flammability Limit</b>	4.0%		
<b>Vapor Pressure</b>	Not available		
<b>Vapor Density</b>	Not available		
<b>Relative Density</b>	1.0		(Water = 1)
<b>Water Solubility</b>	Not soluble		
<b>Solubility(ies)</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		

**9.2. Other information**

**Density** Weight per gallon: 8.37

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

Not reactive under normal conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of Hazardous Reactions****Hazardous Polymerization**

Hazardous polymerization does not occur.

**Possibility of Hazardous Reactions**

None under normal processing.

**10.4. Conditions to Avoid**

High heat or open flames.

**10.5. Incompatible Materials**

Powdered or alkaline earth metals.

**10.6. Hazardous Decomposition Products**

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

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

#### Acute Toxicity

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	Do not ingest.

The following values are calculated based on chapter 3.1 of the GHS document:

Inhalation	
Mist	2,420.00
Units	mg/L
Vapor	516.30
Units	mg/L

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether			= 308.5 mg/L ( Rat ) 4 h
Isopropyl alcohol	= 4396 mg/kg ( Rat )	= 12800 mg/kg ( Rat ) = 12870 mg/kg ( Rabbit )	= 72.6 mg/L ( Rat ) 4 h

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified.
<b>Sensitization</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	None known based on information supplied.
<b>Reproductive toxicity</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.
<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isopropyl alcohol	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

### 12.2. Persistence and Degradability

Not determined.

### 12.3. Bioaccumulative Potential

Chemical Name	Partition Coefficient
Dimethyl ether	-0.18
Isopropyl alcohol	0.05

### 12.4. Mobility in Soil

#### **Mobility**

Not determined.

### 12.5. Results of PBT and vPvB Assessment

Not determined.

### 12.6. Other Adverse Effects

Not determined.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

#### **Waste from Residues / Unused Products**

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

#### **Contaminated Packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

## Section 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 limited quantity exception

#### **IMDG**

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

#### **RID**

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

**ADR**

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

**ICAO (air)**

14.1 UN/ID No UN1950  
 14.2 Proper Shipping Name Aerosols, flammable  
 14.3 Hazard Class 2.1

**IATA**

14.1 UN/ID No UN1950  
 14.2 Proper Shipping Name Aerosols, flammable  
 14.3 Hazard Class 2.1

**Section 15: REGULATORY INFORMATION****15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****Occupational Illnesses (R-463-3, France)**

Chemical Name	French RG number	Title
Isopropyl alcohol 67-63-0	RG 84	

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**International Inventories**

TSCA Listed  
 EINECS/ELINCS -  
 DSL/NDSL -  
 PICCS -  
 ENCS -  
 IECS -  
 AICS -  
 KECL -

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECS - China Inventory of Existing Chemical Substances  
 AICS - Australian Inventory of Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**Section 16: OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R12 - Extremely flammable  
 R11 - Highly flammable  
 R67 - Vapors may cause drowsiness and dizziness  
 R36 - Irritating to eyes  
 R10 - Flammable



**Full text of H-Statements referred to under sections 2 and 3**

H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapor

**Classification Procedure**

Calculation method

**Issue Date:** 01-Sep-2012**Revision Date:** 01-Jan-2015**Revision Note:** New format.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010**

**Disclaimer**

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**End of Safety Data Sheet**