Safety Data Sheet

Issue Date: 01-Sep-2012 **Revision Date:** 01-Jan-2015 **Version** 2

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

1.1. Product Identifier

SDS # 41012N-EU
Product Code 41012N
Product Name Slide Zinc Stearate Mold Release

Synonyms Slide Zinc Stearate
Zinc Stearate Powder Dispersion
Formula 52812

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

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	45-65	F+; R12	Flam. Gas 1 (H220) Press. Gas (H280)	Not determined
1,1 difluoroethane	Present	75-37-6	30-40	F+; R12	Liq. Gas (H280) Flam. Gas 1 (H220)	Not determined
Isopropyl alcohol	Present	67-63-0	6-12	F; R11 Xi; R36 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	Not determined
Zinc Stearate	Present	557-05-1	1-6	-	Not determined	Not determined

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Additional Information
Substances without a classification are included, because they have established occupational exposure limits

Section 4: FIRST AID MEASURES

4.1. Description of 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.

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

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.

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 (CO2). 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 shows 10-12 inch extension (FHA).

Hazardous Combustion Products Carbon oxides.

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: 1000 ppm.

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Dimethyl ether 115-10-6	TWA 1000 ppm TWA 1920 mg/m^3	STEL: 500 ppm STEL: 958 mg/m^3 TWA: 400 ppm TWA: 766 mg/m^3	TWA: 1000 ppm TWA: 1920 mg/m^3	TWA: 1000 ppm TWA: 1920 mg/m^3	TWA: 1000 ppm TWA: 1900 mg/m^3 Ceiling / Peak: 8000 ppm Ceiling / Peak: 15200 mg/m^3
Isopropyl alcohol 67-63-0		STEL: 500 ppm STEL: 1250 mg/m^3 TWA: 400 ppm TWA: 999 mg/m^3	STEL: 400 ppm STEL: 980 mg/m^3	STEL: 400 ppm STEL: 1000 mg/m^3 TWA: 200 ppm TWA: 500 mg/m^3	TWA: 200 ppm TWA: 500 mg/m^3 Ceiling / Peak: 400 ppm Ceiling / Peak: 1000 mg/m^3
Zinc Stearate 557-05-1		STEL: 20 mg/m^3 STEL: 12 mg/m^3 TWA: 10 mg/m^3 TWA: 4 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3	

Component	Italy	Portugal	Netherlands	Finland	Denmark
Dimethyl ether 115-10-6 (55-65)	TWA: 1000 ppm TWA: 1920 mg/m^3		STEL: 1500 mg/m^3 TWA: 950 mg/m^3	TWA: 1000 ppm TWA: 2000 mg/m^3	TWA: 1000 ppm TWA: 1920 mg/m^3
Isopropyl alcohol 67-63-0 (6-12)		STEL: 400 ppm TWA: 200 ppm		TWA: 200 ppm TWA: 500 mg/m^3 STEL: 250 ppm STEL: 620 mg/m^3	TWA: 200 ppm TWA: 490 mg/m^3
Zinc Stearate 557-05-1 (1-6)		TWA: 10 mg/m^3		TWA: 10 mg/m^3	

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Dimethyl ether 115-10-6	STEL 2000 ppm STEL 3820 mg/m^3 TWA: 1000 ppm TWA: 1910 mg/m^3	TWA: 1000 ppm TWA: 1910 mg/m^3	TWA: 1000 mg/m^3	TWA: 200 ppm TWA: 384 mg/m^3 STEL: 250 ppm STEL: 480 mg/m^3	TWA: 1000 ppm TWA: 1920 mg/m^3
Isopropyl alcohol 67-63-0	STEL 800 ppm STEL 2000 mg/m^3 TWA: 200 ppm TWA: 500 mg/m^3	STEL: 400 ppm STEL: 1000 mg/m^3 TWA: 200 ppm TWA: 500 mg/m^3	STEL: 1200 mg/m^3 TWA: 900 mg/m^3 Skin	TWA: 100 ppm TWA: 245 mg/m^3 STEL: 150 ppm STEL: 306.25 mg/m^3	TWA: 200 ppm STEL: 400 ppm Skin
Zinc Stearate 557-05-1		TWA: 3 mg/m^3			TWA: 10 mg/m^3 TWA: 4 mg/m^3 STEL: 20 mg/m^3

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

Physical State	Aerosol		
Appearance	Water-white mobile liquid	**Odor**	Slight ether
Color	Water white	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	Not determined	
Melting Point/Freezing Point	< -17.5 °C / <0.5 °F	
Boiling Point/Boiling Range	Not available	
Flash Point	Not applicable	
Evaporation Rate	2.3 minutes	
Flammability (Solid, Gas)	Flammable aerosol	
Flammability Limits in Air		
Upper Flammability Limits	25.0%	
Lower Flammability Limit	2.0%	
Vapor Pressure	36 mm Hg	@ 70° F
Vapor Density	Not available	
Relative Density	0.81	(Water = 1)
Water Solubility	Not soluble	
Solubility(ies)	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	

9.2. Other information

Density Weight per gallon: 6.79

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
Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

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

Oral LD50	50,192.00
Units	mg/kg
Dermal LD50	64,646.00
Units	mg/kg
Inhalation	
Mist	1,037.10
Units	mg/L
Vapor	351.60
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
Zinc Stearate	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

Sensitization Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity None known based on information supplied.

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard Not classified.

Symptoms 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
Zinc Stearate	1.2

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	-
IECSC	-
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
IECSC - 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
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