Safety Data Sheet

Issue Date: 09-Jan-2012 **Revision Date:** 14-Dec-2018 **Version** 1

1. Identification

Product identifier

Product Name Slide Silicone Mold Release

Other means of identification

SDS # 40112N-MX

Product Code 40112N

Recommended use of the chemical and restrictions on use

Recommended Use Industrial mold release

Details of the supplier of the safety data sheet

Manufacturer Address
Slide Products Inc.
430 Wheeling Road
Wheeling, Il 60090
Phone: 1-847-541-7220
Fax: 1-847-541-7986

Emergency telephone number

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

2. Hazard(s) identification

Classification

Flammable aerosols	Category 2 -(H223)
Gases under pressure	Compressed gas -(H280)

Label elements

Signal word
Warning

Hazard statements
H223 - Flammable aerosol
H280 - Contains gas under pressure; may explode if heated

Flame
Gas cylinder

Precautionary Statements - Prevention
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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

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

3. Composition/information on ingredients

Substance
Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Dimethyl ether	115-10-6	40-50
1,1,1,2-Tetrafluoroethane	811-97-2	40-50
Polydimethylsiloxane	63148-62-9	3-7

4. First-aid measures

Description of first aid measures

General advice When symptoms persist or in all cases of doubt seek medical advice.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms. Causes asphyxiation in high concentrations When heated, mists of this product will irritate nasal passages If product is sprayed directly on skin, symptoms of frostbite will be experienced including numbness, prickling, and itching This product has laxative properties and will result in abdominal cramps and diarrhea

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Foam. Water.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical Extremely flammable. Pressurized container: May burst if heated. Heat will cause the containers to explode. Combustion products will be toxic.

Hazardous combustion products Carbon oxides. Formaldehyde. Hydrogen fluoride.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective actions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Ventilate affected area. Remove all sources of ignition.

Environmental precautions

Environmental precautions Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use only non-sparking tools. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. For waste disposal, see section 13 of the SDS.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Do not breathe vapor or mist. Avoid contact with skin and eyes. Wash thoroughly after handling. Empty containers will contain flammable vapors/residue.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat. Inspect containers periodically for defects. Protect container from physical damage.

8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Local exhaust ventilation recommended. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear splash proof or dust proof safety goggles wherever there is a potential for eye contact.

Skin and body protection Use impervious gloves. Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations Do not breathe vapor or mist. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Aerosol
Appearance	Cream-colored, oily liquid
Color	Cream
Odor	Sweet Ether
Odor Threshold	Not determined

Property	**Values**	**Remarks • Method**
pH	No information available	
Melting point / freezing point	< -45 °C / -50 °F	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	Flammable aerosol	
Flammability Limit in Air		
Upper flammability or explosive limits	25.0%	
Lower flammability or explosive limits	4.0%	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	1.0	
Water Solubility	partially soluble	
Solubility in other solvents	No data available	
Partition Coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic Viscosity	No information available	

Other information

Oxidizing properties	No data available
Explosive properties	Mixtures of vapor and air at concentrations in the flammable range may be ignited by a static discharge of sufficient energy
Molecular weight	No data available
Liquid Density	No data available
Bulk density	No data available

10. Stability and reactivity

Reactivity Not reactive under normal conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Avoid direct sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture or incinerate cans.

Incompatible materials Bases. Acids. Alkali metals.

Hazardous decomposition products Carbon oxides. Formaldehyde. Hydrogen fluoride. Fluorine compounds.

11. Toxicological information

Information on likely routes of exposure

Product Information .

Inhalation Do not inhale.

Eye contact Avoid contact with eyes.

Skin contact Avoid contact with skin.

Ingestion Do not ingest.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (dermal) 17,684.30 mg/kg

Unknown acute toxicity 47 % of the mixture consists of ingredient(s) of unknown toxicity
47 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
47 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
47 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
47 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
47 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether 115-10-6	-	-	= 164000 ppm (Rat) 4 h
1,1,1,2-Tetrafluoroethane 811-97-2	-	-	= 1500 g/m^3 (Rat) 4 h

Polydimethylsiloxane 63148-62-9	> 24 g/kg (Rat) > 17 g/kg (Rat)	> 2 g/kg (Rabbit)	-

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

Interactive effects Not classified.

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

Respiratory or skin sensitization Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard Not classified.

Other information Not classified.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,1,1,2-Tetrafluoroethane 811-97-2	-	96 hour LC50-Rainbow Trout: 450 mg/L	-	48 hour EC50-Daphnia magna: 980 mg/L

Persistence/Degradability No data available.

Bioaccumulation No data available.

Component Information

Chemical name	Partition coefficient
Dimethyl ether 115-10-6	-0.18

Other Adverse Effects This product contains Norflurane. Norflurane may contribute to the greenhouse effect when discharged into the atmosphere in large quantities. Norflurane has a 'Global Warming Potential' (GWP) of 1300 over a 100 year time horizon.

13. Disposal considerations

Waste Treatment Methods

Waste from residues/unused products Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

14. Transport information

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

MEX

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

TDG

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

DOT

UN/ID No UN1950
Proper Shipping Name Aerosols
Hazard class 2.2

IATA

UN number UN1950
Proper Shipping Name Aerosols, flammable
Transport hazard class(es) 2.1

IMDG

UN number UN1950
Proper Shipping Name Aerosols
Transport hazard class(es) 2.1

15. Regulatory information

REGULATORY INFORMATION

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dimethyl ether	X	X	X	X	X	X	X	X

1,1,1,2-Tetrafluoroethane	X	X	X	X	X	X	X	X
Polydimethylsiloxane	X	X		X	X	X	X	X

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

16. Other information

NFPA	**Health hazards** Not determined	**Flammability** Not determined	**Instability** Not determined	**Physical and chemical properties** Not determined
HMIS	**Health hazards** Not determined	**Flammability** Not determined	**Physical hazards** Not determined	**Personal protection** Not determined

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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Revision Note: New format.

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The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

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