

1. IDENTIFICATION

Product Identifier

Product Name Investment Wax Casting Mold Release

Other means of identification

SDS # 54882

Product Code 54882
UN/ID No UN1950

Recommended use of the chemical and restrictions on use

Recommended Use Industrial mold 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 Cream-colored, oily liquid **Physical State** Aerosol **Odor** Sweet Ether

Classification

Flammable Aerosols	Category 2
Gases Under Pressure	Compressed Gas

Signal Word

Warning

Hazard Statements

Flammable Aerosol
 Contains gas under pressure; may explode if heated



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

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

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

General Advice	When symptoms persist or in all cases of doubt seek medical advice.
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.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

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

Notes to Physician	Treat symptomatically.
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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 may cause the containers to explode. Combustion products may be toxic.

Hazardous Combustion Products Carbon oxides. Formaldehyde. Hydrogen fluoride. Fluorine compounds.

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. Move containers from fire area if you can do it without risk. Cool containers exposed to fire with water. Do not allow run-off from fire-fighting to enter drains or water courses.

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

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. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Wash thoroughly after handling. Empty containers may contain flammable vapors/residue.
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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.
Incompatible Materials	Bases. Acids. Alkali metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>	No exposure limits noted for ingredient(s)
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Appropriate engineering controls

Engineering Controls	Local exhaust ventilation recommended. Eyewash stations. Showers.
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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 vapors or spray 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 it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	< -45.6 °C / <-50 °F	(concentrate)
Boiling Point/Boiling Range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	Flammable aerosol	
Upper Flammability Limits	25.0%	
Lower Flammability Limit	4.0%	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	1.0	
Water Solubility	Partially soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	No information available	
Auto-ignition Temperature	No information available	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	No information available	
Explosive Properties	Mixtures of vapor and air at concentrations in the flammable range may be ignited by a static discharge of sufficient energy	
Oxidizing Properties	None known	
VOC Content	No information available	

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

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

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

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether 115-10-6	-	-	= 308.5 mg/L (Rat) 4 h
1,1,1,2-Tetrafluoroethane 811-97-2	-	-	= 1500 g/m ³ (Rat) 4 h
Polydimethylsiloxane 63148-62-9	> 17 g/kg (Rat)	> 2 g/kg (Rabbit)	-

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

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
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

Not determined.

Bioaccumulation

Not determined.

Mobility

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

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.

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.**

DOT

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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dimethyl ether	Present	X		Present		Present	X	Present	X	X
1,1,1,2-Tetrafluoroethane	Present	X		Present		Present	X	Present	X	X
Polydimethylsiloxane	Present	X				Present	X	Present	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*

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

Not determined

Not determined

Not determined

Not determined

Issue Date:

09-Jan-2012

Revision Date:

17-Aug-2018

Revision Note:

Regulatory update

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