



Material Safety Data Sheet

URE-FIL and URE-FIL 3

MSDS No. 492

Date of Preparation: January 22, 2008

Revision: 0006

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: URE-FIL and URE-FIL 3

Other Designations: Odorless Microspheres

General Use: Mineral Filler for Casting Resins

Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042

Phone (610) 252-5800, FAX (610) 252-6200

Emergency Contact: Chem-Tel

Domestic 800-255-3924

International 813-248-0585

Section 2 - Composition / Information on Ingredients

Component	CAS Number	ACGIH TWA	Exposure Limits OSHA PEL	Weight Percent (%)
Silica, Amorphous	7631-86-9	Not Established	80 mg/m ³ as dust	60-65
Aluminum Oxide	1344-28-1	10 mg/m ³ as dust	15 mg/m ³ as dust	29-36
Silica, Quartz	14808-60-7	0.05 mg/m ³ as dust	10 mg/m ³ as dust	1-2
Titanium Dioxide	13463-67-7	10mg/m ³ as dust	10mg/m ³ as dust	1-2

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Primary Entry Routes: Skin

Acute Effects

Inhalation: May cause lung irritation

Eye: can cause irritation

Skin: can cause irritation

Ingestion: Unknown

Carcinogenicity: IARC lists Quartz (Silica), in the form of dust particles of respirable size, as a probable carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: preexisting eye and skin disorders may be aggravated by exposure

HMIS	
H	1
F	0
R	0

Section 4 - First Aid Measures

Inhalation: Remove to fresh air: if breathing is labored seek medical attention.

Eye Contact: Flush with water for 15 minutes: seek medical attention

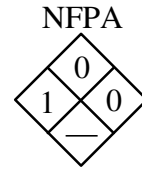
Skin Contact: remove with soap and water: if redness or rash develops seek medical attention: Launder contaminated clothing before reuse.

Ingestion: seek medical attention

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: Not Applicable
Flash Point Method: Not Applicable
Flammability Classification: Not Applicable
Extinguishing Media: Not Applicable
Unusual Fire or Explosion Hazards: None
Hazardous Combustion Products: Not Applicable



Section 6 - Accidental Release Measures

Not Applicable

Section 7 - Handling and Storage

Handling Precautions: Use good general housekeeping procedures.
Storage Requirements: Store in Closed containers. Use only with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State:	Water Solubility: Insoluble
Appearance and Odor: A powder of odorless microspheres	Boiling Point: None
Vapor Pressure: None	Freezing/Melting Point: None
Vapor Density (Air=1): None	Evaporation Rate: None
Specific Gravity (H₂O=1, at 4 °C): 0.7	Viscosity: Not Applicable

Section 10 - Stability and Reactivity

Stability: URE-FIL and URE-FIL 3 are stable at room temperature in closed containers under normal storage and handling conditions.

Chemical Incompatibilities: Strong oxidizing agents, strong Lewis or mineral acids.

Conditions to Avoid: Not Applicable

Hazardous Decomposition Products: Not Applicable

Section 11- Toxicological Information

	Toxicity Data:*
Eye Effects: Irritation	Carcinogenicity: IARC lists Quartz (Silica), in the form of dust particles of respirable size, as a probable carcinogen.
Skin Effects: Irritation	Mutagenicity: None Determined
	Teratogenicity: None Determined

Section 12 - Ecological Information

None Determined

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT	IATA	IMDG
Not Regulated	Not Regulated	Not Regulated

Section 15 - Regulatory Information

EPA Regulations: This material is not considered a hazardous material.

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33): None

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), None

SARA 311/312 Codes: None

Section 15 - Regulatory Information (continued)

SARA Toxic Chemical (40 CFR 372.65): This product contains the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Aluminum Oxide	1344-28-1	36.0 Max

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed,

TSCA Inventory Status (40CFR710): All components of this formula are on the TSCA inventory

State Regulations:

California Proposition 65: This product contains crystalline silica (particles of respirable size), which has been identified by the state of California to cause cancer, birth defects or other reproductive harm.

Delaware, Massachusetts, Minnesota, New Jersey, Pennsylvania and Washington Right To Know, Substance List:

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Aluminum Oxide	1344-28-1	36.0 Max

Massachusetts, Minnesota and Pennsylvania Right To Know, Substance List:

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Silica, Amorphous	7631-86-9	36 Max.

Indiana, Massachusetts, Minnesota, Pennsylvania and Washington Right To Know, Substance List

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Silica, Quartz	14808-60-7	2 Max.

Maine, Massachusetts, Minnesota, Pennsylvania and Washington Right To Know, Substance List:

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Titanium Dioxide	13463-67-7	2.0 Max

Section 16 - Other Information

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Title: Technical Director

Disclaimer: The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.