



## MATERIAL SAFETY DATA SHEET

This MSDS is compatible with ISO 11014 - 1:1994 and conforms to ANSI standard Z400.1 - 1993.

### Section 1: Chemical Product and Company Identification

**CHEMICAL SUPPLIER COMPANY NAME**

Shin-Etsu MicroSi, Inc.  
10028 South 51<sup>st</sup> Street  
Phoenix, AZ 85044

**EMERGENCY TELEPHONE**

Chemtrec 24 hrs: (800) 424-9300  
Information: (480) 893-8898  
Fax: (480) 893-8637

**MANUFACTURER'S NAME:**

Shin-Etsu Chemical Co. Ltd.

**ADDRESS:**

6-1, 2-Chrome, Ohtemachi, Chiyodaku, Tokyo, Japan

**TELEPHONE NUMBER:**

03-3246-5345 Tokyo, Japan

**DATE PREPARED:**

11/06/1998

**DATE REVIEWED:**

07/17/2002

**PRODUCT NAMES:**

**G-751**

**CHEMICAL NAME:**

Silicone Fluid Compound

**CHEMICAL FAMILY:**

Organopolysiloxane Mixture

**FORMULA:**

Mixture

### Section 2: Composition, Information on Ingredients

PRODUCT COMPOSITION	wt. %	ACGIH TLV	OSHA PEL	UNITS	CAS NO.
Silicone Fluid Compound	100	Not Established	Not Established	Not Applicable	Mixture

Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

**HAZARDOUS COMPONENTS:** No hazardous materials present.

### Section 3: Hazards Identification

**HAZARD CLASSIFICATION:** Not classified as hazardous based on IMO and DOT.

**FIRE AND EXPLOSION:**

Not considered flammable or combustible, but this substance will burn if involved in a fire. Emits toxic fumes when burned.

This product (preparation) has been determined to be non dangerous according to the European Community Directives 67/548/EEC and 1999/45/EC and subsequent amendments.

Danger Symbol: n/a

Risk Phrase: n/a

Safety Phrase: n/a

**POTENTIAL HEALTH EFFECTS**

**SKIN CONTACT:**

May cause slight skin irritation.

**EYE CONTACT:**

May cause slight eye irritation.

**INGESTION:**

No information is available.

**INHALATION:**

Not applicable.

## Section 4: First Aid Measures

### SKIN CONTACT:

Remove product from skin with dry cloth or towel and wash exposed area with soap and water.

### EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes. Consult a Physician

### INGESTION:

If swallowed, wash out mouth with water. **Never give anything by mouth to an unconscious person.** Consult a Physician.

### INHALATION:

Not applicable. Be aware, if decomposition products are inhaled, remove to fresh air. If victim is not breathing give artificial respiration, preferably mouth-to-mouth. Consult a Physician.

## Section 5: Fire-fighting Measures

### FLASH POINT:

Not Applicable

### FLAMMABLE LIMITS IN AIR (% by vol.):

Lower: Not Measured, Upper: Not Measured

### EXTINGUISHING MEDIA:

Foam, Dry Chemical, or CO<sub>2</sub> or water spray.

### SPECIAL FIREFIGHTING PROCEDURES:

Wear appropriate protective equipment, including NIOSH-approved respirator. Work from the upwind side of the fire. Use suitable extinguishing agents. If possible, move the container to a safe area. If it cannot be removed from fire danger, protect it from destruction then cool container and vicinity by spraying with water. If ignited and it cannot be extinguished easily, evacuate the area and call your emergency responders.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Emits toxic fumes when burned. Do not inhale decomposition products. Disperse harmful atmospheres by ventilating with air.

## Section 6: Accidental Release Measures

### ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear proper protective equipment and warn unnecessary people away. Eliminate all sources of ignition and ventilate area. Contain or dike the spill or leak. Take up spilled material with rag or cardboard. Place in a chemical waste container for later disposal. Avoid contacting spilled material with acids, bases, or oxidizing materials to prevent generation of hydrogen gas. Prevent spills from entering sewers or watercourses.

### DISPOSAL METHOD:

Disposal should be made in accordance with Federal, State and local regulations. Incineration is recommended.

## Section 7: Handling and Storage

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store upright in a cool, dry place. Keep container closed when not in use.

Keep away from heat, sparks, flame, direct sunlight and other possible sources of ignition.

Wear proper protective equipment and avoid contact with skin, eyes or clothing.

Wash hands and face after handling this material. Keep out of reach of children.

Do not smoke cigarettes which have come in contact with this material.

Follow all regulations in pertaining to this material in your country.

### INFORMATION ON EMPTIED CONTAINER

Do not reuse this container. Do not puncture, cut or weld on or near this container.

Keep empty container away from heat, sparks, flame, and other possible sources of ignition.

Dispose of this container according to local, state, and federal laws in your country.

## Section 8: Exposure Controls/Personal Protection

### EXPOSURE GUIDELINES

ACGIH TLV-TWA: Not Established

ACGIH STEL: Not Established

OSHA PEL: Not Established

### VENTILATION:

Good general, mechanical, room ventilation is recommended but not required.

SPECIAL VENTILATION CONTROLS: Not required.

### RESPIRATORY PROTECTION:

Use only NIOSH approved respirator suitable for concentrations and type of air contaminants encountered if required by your process.

PROTECTIVE GLOVES: Plastic Film or Rubber Gloves

EYE PROTECTION: Goggles, Safety Glasses, Faceshield

### PROTECTIVE CLOTHING:

Wear suitable protective clothing to prevent skin contact.

### OTHER EQUIPMENT:

Make safety shower, eyewash stations and handwashing equipment available in the work area.

### WORK/HYGIENE PRACTICES:

Avoid contact with eyes and prolonged, repeated skin contact. Wash hands and face after handling.

## Section 9: Physical and Chemical Properties

BOILING POINT: Not Applicable

VAPOR PRESSURE(@25 °C): Negligible

VAPOR DENSITY(AIR=1): Not Applicable

SPECIFIC GRAVITY(@25 °C): 2.4 to 2.8

MELTING POINT: Not Applicable

EVAPORATION RATE(BUTYL ACETATE = 1): Negligible

SOLUBILITY IN WATER: Not Soluble

APPEARANCE - COLOR: Gray

PHYSICAL STATE: Grease or Paste

ODOR: Slight Odor

## Section 10: Stability and Reactivity

STABILITY: Stable.

CONDITIONS TO AVOID: None.

INCOMPATIBILITY (MATERIALS TO AVOID): None.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic fumes when burned.

HAZARDOUS POLYMERIZATION: Will not occur.

## Section 11: Toxicological Information

SKIN IRRITATION: No Data is Available

EYE IRRITATION: No Data is Available

ACUTE TOXICITY (LD50): No Data is Available

ACUTE TOXICITY (LC50): No Data is Available

CHRONIC TOXICITY: No Data is Available

### CARCINOGENICITY

NTP: Not listed

IARC: Not Listed

OSHA REGULATED: Not listed

OTHER INFORMATION: 1999/45/EC Annex II No Toxicological hazards

## Section 12: Ecological Information

BIODEGRADATION: No information is available.  
 BIOACCUMULATION: No information is available.  
 AQUATIC TOXICITY: No information is available.  
 1999/45/EC Annex III No Environmental hazards  
 OTHER INFORMATION: None

## Section 13: Disposal Considerations

Can be burned in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose of the emptied container unlawfully. Observe all federal, state, and local laws in your country.

## Section 14: Transport Information (per 49 CFR 172.101)

UN NO.: Not Regulated  
 IMO CLASSIFICATION AND CLASS,  
 and DOT HAZARD CLASS: Not Regulated  
 DOT LABELS: None  
 PLACARD: None  
 PACKAGING GROUP: Not Regulated  
 DOT PROPER SHIPPING NAME,  
 and EXPORT SHIPPING NAME: None  
 TECHNICAL SHIPPING NAME: None  
 MARINE POLLUTANT: Not Regulated

DOT REPORTABLE QUANTITY (49 CFR 172.101, APP.) and CERCLA REPORTABLE QUANTITY (40 CFR PART 302, TABLE 302.4) HAZARDOUS SUBSTANCE(S) NAME / (CAS NO.), CONTENT(S) AND RQ: None.

## Section 15: Regulatory Information

### TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product should be used in compliance with low volume exemptions (LVE) under TSCA. Under the LVE rules, this product is in compliance with rules, regulations and/or orders of TSCA.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material. The toxic chemicals contained in this product are: Zinc Oxide, CAS No. 1314-13-2, ca. 20%.

### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute. The California Proposition 65 Chemical(s) contained in this product are: None.

This product has been reviewed for compliance with the following European Community Directives: Directive 67/548/EEC, Directive 2001/59/EC, Directive 1999/45/EC, Directive 91/155/EC, and Directive 2001/58/EC.

COMPONENT	EINEC/ELINC NUMBER	EINEC/ELINC STATUS	CMR CLASSIFICATION	DANGER SYMBOL	RISK PHRASE NUMBER	SAFETY PHRASE NUMBER	WGK
Mixture	N/A	Not listed	Not Classified	N/A	Not Hazardous	Safe	0

EINECS: European Inventory of Existing Commercial Chemical Products.  
ELINCS: European List of Notified Chemical Substances

## **Section 16: Other Information**

### **FOR INDUSTRIAL USE ONLY:**

This material safety data sheet is offered solely for your information, consideration and investigation. The data described in this MSDS consist of data on literature, our acquisitional data, and analogical inference by data of similar chemical substances or products. Shin-Etsu Chemical Co. Ltd. provides no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. Final determination of the suitability of any material is the sole responsibility of the user.

### **ADDITIONAL INFORMATION:**

The information contained within this MSDS is released in good faith and believed to be accurate. No agent of Shin-Etsu Chemical Co., Ltd's, and its subsidiaries, are authorized vary any MSDS data, and its agents disclaim all liability for any action taken or foregone on reliance upon such data. Conditions of use are beyond Shin-Etsu Chemical Co., Ltd's, and its subsidiaries control and therefor the users are responsible to verify this data under their own particular purposes and they alone assume all risks of their use, handling, disposal and reliance upon the information provided herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.