

**GC Electronics**  
1801 Morgan Street  
Rockford, IL 61102  
Phone: (815) 968-9661  
Fax: (815) 968-9661  
www.gcelectronics.com

**Product Name: SILI-SPRAY<sup>3</sup>**  
MSDS Number: 302  
Revision Date: 7/23/07  
Supersedes Date: New

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: **Lubricant**  
Product Name: **SILI-SPRAY<sup>3</sup>**  
Part Number(s): **19-601**

Emergency Contact: **Chemtrec**  
Phone (24 hours): **(800) 424-9300**

### Section 1 - Identification of Product

COMMON NAME (used on label)(Trade Name & Synonyms): **GC SILI-SPRAY<sup>3</sup>**

50CAS. NUMBER: See Section 2

CHEMICAL NAME: Heptane

CHEMICAL FAMILY: N/A

FORMULA: N/A

#### HMIS RATINGS

		Minimal Hazard	0
		Slight Hazard	1
Health:	1	Moderate Hazard	2
Flammability:	3	Serious Hazard	3
Reactivity:	0	Severe Hazard	4
Personal Protection:	B	Gloves, Safety Glasses	B

### Section 2 - Hazardous Ingredients

Principal Hazardous Component(s)

CHEMICAL AND COMMON NAME(S)	CAS. #	OSHA PEL	ACGIH TLV	VAPOR			FLASH POINT DEG. F	APPROX WT %
				PRESSURE @25 DEG. C.	LEL	UEL		
Heptane	142-82-5	400ppm	400ppm	45 mmHg	1.2	6.7	<20(TCC)	50
1,1 Difluoroethane	75-37-6	1000ppm	1000ppm	62 psig	3.9	16.9	-58	30 - 40

### Section 3 - Physical Data

**BOILING POINT (Deg. F):** Concentrate Range: 180 - 550

**SPECIFIC GRAVITY (Water = 1):** Concentrate: .74

**VAPOR PRESSURE (mmHg):** See Section 2

**PERCENT VOLATILE BY WEIGHT (%):** 90 - 95%

**PERCENT VOLATILE ORGANIC COMPOUNDS:** Less than 60%

**VAPOR DENSITY (Air = 1):** >1

Part Number(s): 19-601

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**EVAPORATION RATE (BA = 1):** >1

**SOLUBILITY IN WATER:** Negligible

**REACTIVITY IN WATER:** None

**APPEARANCE AND ODOR: CONCENTRATE:** Clear liquid, irritating odor at high concentrations;

**PROPELLANT:** Colorless, odorless gas; **FINISHED PACKAGE:** Pressurized containers.

#### Section 4 - Fire & Explosion Hazard Data

**FLASH POINT:** See Section 2

**FLAMMABLE LIMITS IN AIR - % BY VOLUME:** See Section 2

**EXTINGUISHER MEDIA:** Water fog, dry chemical, carbon dioxide

**AUTO-IGNITION TEMPERATURE:** Unknown

**SPECIAL FIRE FIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained, positive pressure, respiratory equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extremely flammable. Contents under pressure. Do not use or store near heat or ignition sources. Containers may burst at temperatures above 130 deg. F.

#### Section 5 - Health Hazard Data

**THRESHOLD LIMIT VALUE:** See Section 2

#### **SIGNS AND SYMPTOMS OF EXPOSURE:**

**EYE CONTACT:**

Contact with liquid or mist may cause irritation. Vapors may irritate eyes;

**SKIN CONTACT:**

Prolonged contact may cause irritation, defatting of skin;

**INHALATION:**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, and unconsciousness.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. INTENTIONAL

MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THE CAN MAY BE HARMFUL OR FATAL;

**INGESTION:**

Aspiration may cause rapid absorption through the lungs, which may result in systemic effects.

***IMPORTANT NOTE: REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS MAY LEAD TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. EYE WATERING, HEADACHES, NAUSEA, DIZZINESS AND LOSS OF COORDINATION ARE SIGNS THAT SOLVENT LEVELS ARE TOO HIGH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.***

EMERGENCY AND FIRST AID PROCEDURES:

<b><u>INHALATION:</u></b>	Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs. Call a physician.
<b><u>EYES:</u></b>	Flush with water for at least 15 minutes. Get medical assistance if irritation persists.
<b><u>SKIN:</u></b>	Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.
<b><u>INGESTION:</u></b>	Do not induce vomiting. Call a physician immediately.

**Section 6 - Reactivity Data**

<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Avoid any excessive heat, ignition sources, open flames, or other high temperatures which induce thermal decomposition.
<b>INCOMPATIBILITY (Materials to Avoid):</b>	Strong oxidizing agents
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon Dioxide, Carbon Monoxide.
<b>HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID:</b>	Will not occur. Not Applicable

**Section 7 - Spill or Leak Procedures**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

<b><u>SMALL SPILLS:</u></b>	Remove ignition sources. Mop up, wipe up, or soak up immediately. Use proper protective equipment.
<b><u>LARGE SPILLS:</u></b>	Evacuate area. Remove ignition sources. Contain liquid; transfer to closed containers; keep out of water supplies.
<b>WASTE DISPOSAL METHODS:</b>	Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

**Section 8 - Special Protection Information**

<b>RESPIRATORY PROTECTION:</b>	NIOSH or Bureau of Mines approved organic vapor-type respirator is required in absence of proper environmental control.
<b>VENTILATION:</b>	LOCAL EXHAUST: To keep below TLV MECHANICAL (General): To keep below TLV SPECIAL: None OTHER: None

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**PROTECTIVE GLOVES:** Solvent resistant gloves - impervious gloves  
**EYE PROTECTION:** Safety glasses or goggles  
**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None reasonably foreseeable.

### Section 9 – Special Precautions

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Do not store above 120 Deg. F. Do not use or store near any open flames or ignition sources.  
**OTHER PRECAUTIONS:** Extremely flammable. Do not use or store near open flames, heat, or any sources of ignition. Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

### Section 10 - Regulatory Information

SUBJECT TO SECTION 313 OF SARA TITLE III: No.

ALL CHEMICAL COMPONENTS ARE LISTED IN THE TSCA INVENTORY.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: NATIONAL TOXICOLOGY PROGRAM: No  
I.A.R.C. MONOGRAPHS: No  
OSHA: No  
OSHA PERMISSIBLE EXPOSURE LIMIT: See Section 2  
ACGIH THRESHOLD LIMIT VALUE: See Section 2  
OTHER EXPOSURE LIMITED USED: None

### Section 11 - Other Information

**TRANSPORTATION INFORMATION – DOMESTIC GROUND**  
Shipping Name: Aerosol, Flammable, N.O.S.  
Hazard Class: 2.1  
UN Number: UN1950  
Packing Group: N/A  
Hazard Label: ORM-D  
Carton Marking: Consumer Commodity, ORM-D  
Discription: Heptane

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