

**CHEMTRONICS INC.**

MSDS #0805

**SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Company Address:**  
8125 Cobb Center Drive  
Kennesaw, GA 30152 USA

Product Information: 800-TECH-401  
Customer Service: 800-645-5244

Emergency: (Chemtec) 800-421-9300  
Revision Date: October 6, 1997

**Product Identification**

**SILKON<sup>®</sup> 35 SILICONE LUBRICANT**

Product Code: ES1638, ES1638C

**SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Wt. % Range
n-hexane	110-54-3	0.1-1.0
2-methylpentane	107-83-5	25.0-30.0
3-methylpentane	96-14-0	10.0-15.0
2,3-Dimethylbutane	79-29-8	10.0-15.0
2,2-Dimethylbutane	75-83-2	5.0-10.0
Isobutane	75-28-5	20.0-25.0
Propane	74-98-6	5.0-10.0
Electrical Grade Silicone	mixture	1.0-5.0

**SECTION 3: HAZARD IDENTIFICATION**

**Emergency Overview:** Clear, colorless liquid with hydrocarbon odor. This product is extremely flammable. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce drowsiness and a headache.

**Potential Health Effects:**

**Eyes:** Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

**Skin:** Contact causes skin irritation.

**Ingestion:** Harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.

**Inhalation:** Harmful if inhaled. High concentrations of vapors in immediate area can irritate the respiratory tract and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Heart, lung, skin, eye.

**SECTION 4: FIRST AID MEASURES**

**Eyes:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

**Skin:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persist. Wash clothing separately before reuse.

**Ingestion:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get immediate medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** -156 F (propellant)

**LEL/AEL:** Not established (% by volume in air)

**Extinguishing Media:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Large Spills:** Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

**Small Spills:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal.

**SECTION 7: HANDLING AND STORAGE**

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor or mist. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct sunlight.

**KEEP OUT OF REACH OF CHILDREN.**

**SECTION 8: EXPOSURE CONTROLS/PERSONNEL PROTECTION**

**Exposure Guidelines:**

CHEMICAL NAME	ACGIH TWA	OSHA PEL	OSHA STEL
Isobutane	NA	NA	NA
Propane	NA	1,000 ppm	NA
Silicone fluid	NA	NA	NA
n-Hexane	50 ppm	50 ppm	NA
2-methylpentane	NA	NA	NA
3-methylpentane	NA	NA	NA
2,3-Dimethylbutane	NA	NA	NA
2,2-Dimethylbutane	NA	NA	NA

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**Work/Hygienic Practices:** Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material.

<b>NFPA and HMIS Codes:</b>		
Health	NFPA 1	HMIS 1
Flammability	3	3
Reactivity	1	1
Personal Protection	-	B

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b> Clear, colorless liquid	<b>Solubility in Water:</b> Negligible
<b>Odor:</b> Hydrocarbon odor	<b>Specific Gravity:</b> (Water =1) 0.66 @ 100 F
<b>pH:</b> NA	<b>Evaporation Rate:</b> <1
<b>Vapor Pressure:</b> 236 mm Hg @ 68 F	(Ethyl ether =1):
(Air = 1)	<b>Viscosity:</b> NA
<b>Vapor Density:</b> 3	<b>Percent Volatile:</b> 96% approx.
(Air 1)	<b>Boiling Point:</b> 141 F
<b>Melting Point:</b> NA	

**SECTION 10: STABILITY AND REACTIVITY**

**Stability -** This product is stable.  
**Conditions to Avoid:** Do not spray near open flames, red hot surfaces or other sources of ignition.  
**Incompatibility:** Do not mix with powdered alkali and alkaline earth metals or strong oxidizing agents.  
**Products of Decomposition:** Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.  
**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** NA

**SECTION 11: TOXICOLOGICAL INFORMATION**

No information is available.

**SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Impact Information**  
 Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

**Environmental Impact Data**  
(percent by weight)

CEC	0.0%	VOC	96.0%
HCFC	0.0%	HFC	0.0%
Cl. Solv.	0.0%	ODP	0.00

**REPORTING**

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is:  
 1-800-424-8802

For more information call:  
 1-800-645-5244

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

**SECTION 14: TRANSPORTATION INFORMATION**

Proper Shipping Name	UN Number	Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
<u>Air:</u> Aerosols Flammable, n.e.s.	UN 1950	2.1	NA	NA	Flammable Gas	203/ Y203	75/ 30 kg
<u>Ground:</u> Consumer Commodity ORM-D	NA	ORM-D	NA	NA	ORM-D	Pkg Auth.	173.306

**SECTION 15: REGULATORY INFORMATION**

**SECTION 313 SUPPLIER NOTIFICATION** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).  
 Product contains no chemicals listed under Section 313.

This information should be included on all MSDSs copied and distributed for this material.  
**TOXIC SUBSTANCES CONTROL ACT (TSCA).** All ingredients of this product are listed on the TSCA Inventory.

**SECTION 16: OTHER INFORMATION**

Product is a Level 3 aerosol. Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

REFERENCES: 29 CFR 1910.1200      40 CFR 300-700      ANSI Z400.1-1993  
 NIOSH RTECS provided by CHEM-BANK by SILVERPLATTER  
 Guide to Occupational Exposure Values 1996

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.

# CHEMTRONICS®

## Technical Data Sheet

**TDS #**  
**1638**

### Silkon 35® Silicone Lubricant

#### PRODUCT DESCRIPTION

Silkon 35® Silicone Lubricant is a silicone based multi-purpose lubricant recommended for all low friction and low weight loads. It lubricates plastics and elastomers as well as sensitive mechanisms without attracting dirt or dust.

- Improves equipment longevity by repelling moisture and reducing corrosion
- Long lasting lubricant for most applications
- No ozone depleting compounds
- Colorless, odorless and nonstaining
- Protective lubricant is usable under extreme temperatures from -65°F to 350°F
- Lubricant meets Fed-VV-D-1078B
- Safe on most surfaces

#### TYPICAL APPLICATIONS

Silkon 35® Silicone Lubricant lubricates:

- Communication Systems
- Data Processing Equipment
- Potentiometers
- Precision Gauges
- Precision Valves
- Relays
- Rheostats
- Solenoids
- Switching Devices
- Timing Devices

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Boiling Point	141°F (liquid Only)
Vapor Density (air=1)	3
Solubility in Water	Negligible
Specific Gravity (water = 1 @77°F)	0.68
Evaporation Rate (butyl acetate=1)	1
Appearance	Clear, Colorless Liquid
Odor	Mild
Surface Tension (dynes/cm @21.6°C)	20.8
Flash Point (TCC) Flammable	-20°F
Viscosity @ 77°F	
For Product (Liquid)	1 cps
For Lubricant	100 cps

#### COMPATIBILITY

Silkon 35® Silicone Lubricant is compatible with most surfaces. As with any chemical product, compatibility with components must be determined on a non-critical area prior to use.

<u>Material</u>	<u>Compatibility</u>
ABS	Excellent
Buna-N	Excellent
EPDM	Good
Graphite	Excellent
HDPE	Excellent
Kynar™	Excellent
LDPE	Excellent
Lexan™	Excellent
Neoprene	Good
Nylon™ 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Poor
Teflon™	Excellent
Viton™	Excellent

## USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

Spray 4-6 inches from surface to be lubricated. For best results, surface should be cleaned with Electro-Wash® PX and dried.

For precise application use attached extension tube. Product is Extremely Flammable - Do not use near sources of ignition and energized equipment.

## AVAILABILITY

ES1638 10 oz. Aerosol

## TECHNICAL & APPLICATION ASSISTANCE

Chemtronics® provides a technical hotline to answer your technical and application related questions. The toll free number is:

1-800-TECH-401.

## ENVIRONMENTAL IMPACT DATA

<b>ENVIRONMENTAL IMPACT DATA</b>			
CFC	0.0%	VOC	96.0%
HCFC	0.0%	HFC	0.0%
CL Solv.	0.0%	ODP	0.0

CFC, HCFC, CL. SOLV., VOC, and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation.

## NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS® does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

## MANUFACTURED BY:

CHEMTRONICS INC.

8125 COBB CENTER DRIVE

KENNESAW, GA 30152

1-770-424-4888

REV. C (11/97)

## DISTRIBUTED BY:

**TECHNICAL HOT LINE 1-800-TECH-401**