

Dentronix DSL-16 Multi-Purpose Silicone Lubricant

Issue Date: December 2014

Internal Document Number: 48211A

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier**Product Name:** Dentronix DSL-16 Multi-Purpose Silicone Lubricant**Product Code(s):** DSL-16**Relevant identified uses of the mixture and uses advised against:** intended for lubricating instruments that are dry heat sterilized. Not intended for the general public. Federal law restricts this device to sale by or on the order of a physician. Uses advised against: None noted.**Synonyms:** Silicone Lube**Manufactured for:**

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Copies of this SDS can be found at
 www.dentronix.com

Section 2: HAZARDS IDENTIFICATION

Classifications: Gases under pressure - Liquefied Gas, Flammable Aerosol Category 2**Appearance:** Clear, colorless gas provided in an aerosol can. Slight ethereal odor.**Contains:** Halogenated Hydrocarbon / Ether Blend**Route(s) of Exposure:** Inhalation, Ingestion, Dermal (Eyes & Skin)**Labeling Elements:****Hazard Category**

Gases under pressure - Liquefied Gas
 Flammable Aerosol Category 2

Signal Word:

WARNING

Hazard Statements:

Flammable aerosol.
 Contains gas under pressure; may explode if heated.

**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.

Response:

(None specified)

Storage:

Protect from sunlight. Store in a well-
 ventilated place. Protect from sunlight. Do
 not expose to temperatures exceeding
 50°C/ 122°F.

Disposal:

(None specified)

Other hazards which do not result in classification: None.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance (Synonyms)	CAS	Percent (w/w)
Halogenated Hydrocarbon / Ether Blend	Mixture	80 – 100%

NJ Trade Secret Registry Number: 80100382-5037P

Section 4: FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.**Eyes:** Immediately flush eyes gently with plenty of water for at least 15 minutes while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention.

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Skin: In case of contact, immediately wash contaminated area with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist. Seek medical attention if symptoms persist. Wash clothing before reuse. For liquid contact, treat for frostbite if necessary.

Ingestion: Ingestion is an unlikely route of exposure. Contact a physician, medical facility, or poison control center for advice on whether to induce vomiting. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.

Notes to Physician: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used only in situations of emergency life support.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use CO₂, foam or dry chemical. Water is generally not effective and may spread fire; however, water spray may be used from a safe distance to cool closed containers and protect surrounding area.

Specific Hazards Arising from the Chemical: This product contains a component(s) that is considered an extremely flammable gas(es), which has vapors that are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, or other flames and ignition sources at locations distant from the material's handling point. Containers may rupture or explode under fire conditions.

Protective Equipment and Precautions for Firefighters: Standard protection for all firefighters stated in this subsection of the SDS text should include self-contained breathing apparatus (SCBA) and full firefighting turn-out gear (Bunker gear).

Combustible Dust: Not a combustible dust.

Kst (degradation index value): Not applicable.

MIE (minimum ignition energy): Not applicable.

MEC (minimum explosive concentration): Not applicable.

Particle size: Not applicable.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Use personal protection recommended in Section 8.

Methods for Containment and Clean-up: Ventilate contaminated area. Remove all sources of ignition. Stop or reduce discharge if it can be done safely. Avoid run-off into storm sewers and ditches which may lead to natural waterways. Clean up with absorbent material. Place absorbent materials into container and close it tightly. Dispose of container properly. If runoff occurs, notify authorities as required.

Other Information: None.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Use with adequate ventilation. Do not use near ignition sources. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapor.

Conditions for Safe Storage, Including Incompatibilities: Keep out of reach of children. Store in a cool, dry, well-ventilated area away from all sources of ignition. Do not store at temperatures above 120 degrees F. Empty container may contain residues which are hazardous. Store away from incompatible materials such as materials that support combustion (oxidizing materials) and corrosive materials (strong acids or bases). Store away from oxygen cylinders or other oxidizing materials and possible ignition sources. Ground all equipment and cylinders before use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Component Exposure Limits:**

Component:	ACGIH TLV	NIOSH REL:	OSHA PEL:	IDLH:	8hr TWA	Notation
Halogenated Hydrocarbon / Ether Blend	Not established	No data.	Not established	No data.	1000 ppm (Manuf.)	No data.

Appropriate Engineering Controls: Ventilation should be adequate to prevent exposures above the limits indicated in "Section 2" of this MSDS (from known, suspected or apparent adverse effects).

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Personal Protective Equipment (Eyes and Face): Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material. Do not wear contact lenses. Have an eye wash station available.

Personal Protective Equipment (Skin): The use of chemically resistant gloves is recommended if there is any possibility of prolonged or repeated liquid contact with skin.

Personal Protective Equipment (Respiratory): A supplied air respirator should be used if ventilation is not sufficient to maintain exposure limits. Use NIOSH approved respirator where there is likelihood of inhalation of the product mist, spray or aerosol.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Colorless Gas	Viscosity: (Brookfield LVT #1, 30rpm)	No data available
Odor:	Slight ethereal	VOC:	40 - 60
Odor Threshold:	Mild	Boiling Point:	No data available
pH:	Not applicable	Solubility (H₂O):	Negligible; 0-1%
Melting Point:	No data available	Evaporation Rate:	0.1-0.5 (n-Butyl acetate = 1)
Specific Gravity:	0.8 (water = 1)	Decomposition Temp:	No data available
Octanol / H₂O Coefficient (log K_{ow}):	No data available	Lower Flammability Limit:	Not applicable
Molecular Weight:	No data available	Upper Flammability Limit:	Not applicable
Auto Ignition:	622	Vapor Pressure (25°C):	78.00
Flash Point:	Not applicable	Flammability Class:	No data available
Vapor Density:	1.98 (air = 1)		

Section 10: STABILITY AND REACTIVITY

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Will not undergo hazardous polymerization.

Conditions to Avoid: Ignition sources such as open flames, sparks, static discharges or glowing metal surfaces. Oxidizers.

Incompatibility: Avoid contact with: alkali, alkaline earth metals, powdered metals, acetic acids organic acid anhydrides.

Hazardous Decomposition Products: This material can be decomposed by extremely high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and carbonyl fluoride. If heated with peroxides present, violent decomposition can occur. When heated to temperatures above 150°C in the presence of air, one of the ingredients in this product can form formaldehyde vapors. Formaldehyde vapor is harmful by inhalation; irritating to eyes; sensitizer to the respiratory system; an acute toxicant and a potential cancer hazard at concentrations greater than 0.75 ppm.

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Ingestion, Dermal (Eyes & Skin)

Toxicity:

Substance (Synonyms)	Toxicological Data
Halogenated Hydrocarbon / Ether Blend	ORAL ALD Rat > 1500 mg/kg, 4HR ALC Rat 383000 ppm
Ether propellant	Inhalation LC50 Rat = 164000 ppm

Acute Effects:

Inhalation: No data available.

Eye Contact: No data available.

Skin Contact: No data available.

Ingestion: No data available.

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Sensitization: No data available.**Carcinogenicity:** This product does not contain any substances classified as carcinogens by NTP, ACGIH, IARC or OSHA.**Component Carcinogenicity:** No data available.**Mutagenicity:** No data available.**Reproductive Toxicity:** No data available.**Specific Target Organ Toxicity - Single Exposure (STOT-SE):** No data available.**Specific Target Organ Toxicity - Repeated or Prolonged Exposure (STOT-RE):** No data available.**Section 12: ECOLOGICAL INFORMATION****Ecotoxicity:**

Substance (Synonyms)	Toxicological Data
Ether propellant	48HR NOEC GUPPIES > 4000 mg/L 48HR NOEC Daphnia > 4000 mg/L

Persistence / Degradability: No data available.**Aquatic Toxicity:** No data available.**Bioaccumulative Potential:** No data available.**Mobility in Soil:** No data available.**Other Adverse Effects:** None known.**Section 13: DISPOSAL CONSIDERATIONS****Disposal:** Dispose according to Federal, State and local regulations.**Additional Disposal Considerations:** None.**Section 14: TRANSPORT INFORMATION**

Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
DOT	UN1950	Aerosols, Flammable	2.1	Not applicable
IATA	UN1950	Aerosols, Flammable	2.1	Not applicable
IMDG	UN1950	Aerosols, Flammable	2.1	Not applicable

* "Limited Quantities" may be applicable for this transportation mode.

Section 15: REGULATORY INFORMATION**SARA Sections 302 and 304:** This product does not contain Extremely Hazardous Substances (EHS) and is not subject to emergency planning requirements.**CERCLA:** This product does not contain CERCLA Hazardous Substances and is not subject to reporting requirements.**SARA Section 313:** Substances within this product are not required to be reported in accordance with SARA 313 or the substances within are exempt by rules for "de minimis concentrations of a toxic chemical in a mixture" §372.38(a).**California Proposition 65:** There are no chemicals within this mixture on the Proposition 65 List.**Canadian Regulations require the inclusion of the following statements under "Regulatory Information":** This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.**International Inventories:****US (TSCA):** The components within this product are included on the TSCA Inventory of Chemical Substances**Canada (DSL):** All ingredients are on the inventory or exempt from listing.**European Union (EINECS):** All ingredients conform to the EU requirements.**Japan (ENCS):** All other ingredients are on the inventory or exempt from listing.**Philippines (PICCS):** All other ingredients are on the inventory or exempt from listing.

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South Korea (KECL): All ingredients are on the Inventory or exempt from listing.**Australia (AICS):** All ingredients are on the Inventory or exempt from listing.**New Zealand (NZIoC):** All ingredients are on the Inventory or exempt from listing.**China (IECSC):** All ingredients are on the Inventory or exempt from listing.

Section 16: OTHER INFORMATION

National Fire Protection Association (NFPA)

Hazardous Material Information System (HMIS®)

NFPA Ratings:**Health: 1****Fire: 3****Reactivity: 1****HMIS Ratings:****Health: 1****Fire: 3****Reactivity: 1**

(NFPA and HMIS Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe)

REVISION HISTORY

REVISION	DATE	ECN#	CHG BY	APPR BY	DESC. OF CHANGE
A	12/10/14	14553	SBL	PS	Updated MSDS to GHS/SDS Format. 48211 Revision A supersedes 48031 Revision E.

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