1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Silicone Lubricant
PRODUCT DESCRIPTION: General Purpose Silicone Lubricant, CARB Compliant
PRODUCT CODE: RX2200-10

MARKETER
NTE Electronics, Inc.
44 Farrand Street
Bloomfield, NJ 07003
Emergency Contact: Chemtrec
Service Number: 1-973-748-5089

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) : (800) 424-9300
CANUTEC (Canadian Transportation) : (613) 996-6666
Emergency Phone : (800) 858-4043

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

“F” – Highly inflammable
R11 – Highly inflammable.
“Xn” – Harmful
R22 – Harmful if swallowed.
R36/37/38 – Irritating to eyes, respiratory system and skin.

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS: Flammable Aerosol

POTENTIAL HEALTH EFFECTS

EYES: Substance causes substantial eye irritation.
SKIN: Liquid contact could cause frostbite.
SKIN ABSORPTION: Skin absorption can occur.
INGESTION: Substance may be harmful if swallowed.
INHALATION: Harmful if inhaled. Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances.
SIGN AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms of overexposure include: stinging, tearing, redness, and pain
SKIN: Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite (“cold” burn)
INGESTION: Swallowing of this material may result in nausea, vomiting and weakness followed by central nervous system depression.
INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).
CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).
CARCINOGENICITY: NOT listed

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Not Established
TERATOGENIC EFFECTS: Not considered a developmental toxicant.

ROUTES OF ENTRY: Inhalation is a major route of entry.
CANCER STATEMENT: NOT listed

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt. %</th>
<th>CAS</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siloxanes and Silicones, di-Me</td>
<td>1 – 4</td>
<td>63148-62-9</td>
<td>xxx-xxx-x</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane (HFC-134a)</td>
<td>20 – 40</td>
<td>811-97-2</td>
<td>212-337-0</td>
</tr>
<tr>
<td>n-Heptane</td>
<td>50 – 70</td>
<td>142-82-5</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention.

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

5. FIRE FIGHTING MEASURES

FLASH POINT: (16°F) TAG CC

GENERAL HAZARD: Aerosol cans may erupt with force at temperatures above 120F.

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

FIRE FIGHTING PROCEDURES: Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCT: Forced combustion yields carbon and silicone oxides.
6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid and place in a sealed container for disposal. Vapors can travel to an ignition source.

GENERAL PROCEDURES: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Wash thoroughly after handling. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool dry place.

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from heat and flame.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>SupplierOEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane (HFC-134a)</td>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>n-Heptane</td>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
</tbody>
</table>

OSHA TABLE CONTENTS:
1. * (AEL)=Acceptable Exposure Limit as established by the manufacture.

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Skin contact with liquid may cause frostbite. General work clothing and gloves (leather) should provide adequate protection. If prolonged contact with the liquid or gas is anticipated, insulate gloves constructed of PVA, neoprene or butyl rubber should be used. Any contaminated clothing should be promptly removed and washed before reuse.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator is there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air is purifying respirators may not provide adequate protection.
WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Boiling Point</th>
<th>Freezing Point</th>
<th>Solubility in Water</th>
<th>Specific Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane (HFC-134a)</td>
<td>-26.4°C</td>
<td>-101°C</td>
<td>Negligible</td>
<td>1.21</td>
</tr>
</tbody>
</table>

PHYSICAL STATE: Liquid

ODOR: Faint ethereal order.

APPEARANCE: Clear, mobile liquid.

COLOR: Colorless

pH: Not Applicable

VAPOR PRESSURE: 73.59 mmHg@20°C (VOC Composite Vapor Pressure)

VAPOR DENSITY: > 1 (AIR=1)

BOILING POINT: Not Available

FREEZING POINT: Not Available

MELTING POINT: Not Applicable

FLASHPOINT AND METHOD: (16°F) TAG CC

SOLUBILITY IN WATER: Negligible

DENISTY: 0.6926 at 25°C

VISCOSITY: Not Applicable

(VOC): 60.000 % by weight

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatibles.
HAZARDOUS DECOMPOSITION PRODUCTS: Forced combustion yields carbon and silicone oxides.

INCOMPATIBLE MATERIALS: Strong acids and alkalis, reactive metals and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>INHALATION LC50 (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane (HFC-134a)</td>
<td>&gt; 500000 ppm</td>
</tr>
</tbody>
</table>

**EYES:**
- NOTES: Moderately to severely irritating

**DERMAL LC50:**
- NOTES: Slight to very low toxicity

**INHALATION LC50:**
- NOTES: HFC134A: Cardiac Sensitization Threshold (dog) >80,000 ppm.
- NOTES: Fumes/liquid -- Irritant

**EYE EFFECTS:** Mixture is a moderate eye irritant

**SKIN EFFECTS:** Causes irritation to skin.

**CARCINOGENICITY**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP STATUS</th>
<th>IARC STATUS</th>
<th>OSHA STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>NOT</td>
<td>NOT LISTED</td>
<td>NOT LISTED</td>
</tr>
</tbody>
</table>

IARC: NOT Listed

NTP: NOT Listed

Notes: Not listed as a carcinogen

**NEUROTOXICITY:** Exposure to high concentrations may effect the nervous system.

**MUTAGENICITY:** Collective data indicate non-mutagenic.

12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on the aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**GENERAL COMMENTS:** Dispose of in a manner consistent with federal, state, and local regulations.
14. TRANSPORTATION INFORMATION

DOT (DEPARTMENT OF TRANSPORTATIONS)
PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D
IN/NA NUMBER: NA
PACKING GROUP: NA

ROAD AND RAIL (ADR/RID)
KEMLER NUMBER: UN1950
HAZARD CLASS: 2.1

AIR (ICAO/IATA)
SHIPPING NAME: CONSUMER COMMODITY ID8000
UN/NA NUMBER: ID8000
PRIMARY HAZARD CLASS/DIVISION: 9
PACKING GROUP: NA
NOTE: Domestic shipments only. When shipping International contact TechSpray shipping department.

VESSEL (IMO/IMDG)
SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2
UN/NA NUMBER: UN1950
PRIMARY HAZARD CLASS/DIVISION: 2.1
PACKING GROUP: NA
NOTE: Page 2102

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 HAZARD CATEGORIES: IMMEDIATE / PRESSURE
FIRE: Yes PRESSURE GENERATING: Yes ACUTE: Yes
313 REPORTABLE INGREDIENTS: Not considered a SARA 313 “Toxic Chemical”.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
CERCLA REGULATORY: None of the ingredients are CERCLA/Superfund hazardous chemicals.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>TSCA SECTION</th>
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</thead>
<tbody>
<tr>
<td>Siloxanes and Silicones, di-Me</td>
<td>63148-62-9</td>
<td>8a, 8d</td>
</tr>
<tr>
<td>1,1,1,2-Retrafluoroethane (HFC-134a)</td>
<td>811-97-2</td>
<td></td>
</tr>
</tbody>
</table>

TSCA STATUS: All components of this product are either listed on exempt from listing in the TSCA inventory.

CLEAN AIR:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt. %</th>
<th>CAS</th>
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<td>811-97-2</td>
</tr>
</tbody>
</table>
40 CFR PART 68 --- RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: NOT listed

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
29 CFR19110.119—PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None of the chemicals in the product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

CLEAN WATER ACT: NOT listed

CANADA
WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
WHMIS CLASS: Class A, Class D28

EUROPEAN COMMUNITY
EEC LABEL SYMBOL AND CLASSIFICATION

[F] – Highly flammable
R11 – Highly flammable

[X] – Harmful
R22 – Harmful if swallowed

R36/37/38 – Irritating to eyes, respiratory system and skin.

16. OTHER INFORMATION

REVISION SUMMARY: New MSDS


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