MATERIAL SAFETY DATA SHEET

Issue Date: October 15, 2009
Rev 8

1. **PRODUCT AND COMPANY IDENTIFICATION:** **Print Date: October 15, 2009**
2. Product Name: SUPER CORR – A (Supercedes Super Corr-B 12-350)
3. Product Number: 12-351
   - a. Military Specification: MIL-L-87177A, Type I, Grade B
   - b. NSN#: 6850-01-528-0653 (**old** 6850-01-328-3617, 9150-01-328-3617)
   - c. Product General Use: Anti-Corrosion Lubricant
   - d. General Description: Non-Flammable, Hydrophobic , Corrosion Preventive Compound
   - e. Formula: Proprietary
   - f. Manufacturer:
   - g. Supplier: Same

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4. COMPOSITION / INFORMATION ON INGREDIENTS:

C	Chemical Name	Cas #	% Wt	313/Chem	Skin	Carcinogen	Pel	TWA/TLV
	3,3-Dichloro-1,1,12,2-Pentafluoropropane	422-56-0	20-40	Yes	NO	NO	N/E	443 ppm
	1,3-Dichloro-1,1,2,2,3-Pentafluoropropane	507-55-1	20-40	Yes	NO	NO	N/E	222 ppm
	Cyclohexane	110-82-7	01-10	NO	NO	NO	300 ppm	300 ppm
	Proprietary CPC	Confidential	01-05	NO	NO	NO	N/E	N/E
	Lubricant	Confidential	01-05	NO	NO	NO	N/E	N/E
	Carbon Dioxide	124-38-9	01-05	NO	NO	NO	10,000 ppm	10,000 ppm

** No CAS #: Proprietary Non-Hazardous Ingredients
Note 1 - This product does not contain any CFCs
[N/A= Not applicable N/E = Not Established N/D = Not Determined < = Less Than > = More Then]

5. HAZARDS INDENTIFICATION: This product complies with OSHA's Hazard Communication Standard (29-CFR 1910.1200)

Potential Health Effects:

- **Inhaled**: Inhalation of high concentrations of vapor/mist may cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respirator tract, dizziness, nausea and other central nervous system effects.
- **Skin Contract:** Frequent or prolonged contact may cause irritation.
- **Eye:** the compound may cause irritation
- I**ngestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea, Aspiration of compound into the lungs can cause chemical pneumonitis, Minimal toxicity.

6. FIRST AID MEASURES:

- **Inhalation:** Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.
- **EYE:** Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.
- **SKIN:** wash with soap and water. If irritation persists seek medical attention.
- **INGESTION:** Do not induce vomiting. Seek medical attention immediately.

Destination Control Statement
These commodities,technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

7. FIRE FIGHTING MEASURES:

- **Flash point:** (of Concentrate Only): NONE
- **Flammable Limits:** (as per USA Flame Projection Test) – Non-Flammable Spray
- **Auto-Ignition temperature:** N / D
- **Suitable Extinguishing media:** Dry Chemicals, Foam, CO2
- **Unsuitable Extinguishing media:** NONE
- **Protective Equipment:** Wear self-contained breathing apparatus, protective clothing.
- **Unusual Fire and Explosion Hazards:** Exposure above 120°F as aerosol can burst. Cool fire exposed containers to prevent rupturing.

8. ACCIDENTAL RELEASE MEASURES:

- **Personal Precautions**: Avoid direct contact with eyes. Minimize contact with skin. Do not breathe mists, aerosols.
- **Personal Protection**: No special equipment needed if used in accordance with label directions.
- **Environmental Precautions:** Wash area to avoid slipping, no special precautions needed.
- **Clean-up methods – small spillage:** Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with local laws. No additional cleaning should be required.
- **Clean-up Methods – Large Spillage:** Same as above.
- **Waste Disposal Method**: When empty and depressurized through normal use or other causes, pose no disposal hazard and should be recycled. Consult local laws for approved procedures of disposing of steel cans.

9. HANDLING AND STORAGE:

- **Handling:** Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for handling.
- **KEEP OUT OF REACH OF CHILDREN.** Intended primarily for Industrial and Institutional use.
- **Storage:** Material is Stable Provide adequate ventilation for storage. Store in a cool dry area, away from heat,open flame, below 120°F

10. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

- **Exposure :** None Established
- **Exposure Limits:** None Established
- **Respiratory Protection':** Not normally required. If risk of inhalation of direct mist, wear half mask respirator with organic vapour cartridge and built-in particulate filter NPF (gas only)
- **Clothing / Gloves:** Standard work cloths and shoes. Optional chemical resistant gloves if desired.
- **Eye Protection:** None required. Optional mono-safety goggles/glasses if desired.
- **Work / Hygienic Practices:** Standard work cloths and shoes. Normal self -hygienic wash practices acceptable.

Appearance and Odor: slight amber in color liquid. Ether-like odor.
Flash Point Method: ASTM D-1310-67 and ASTM D-56-82
Upper Explosive Limit: (volume % in air) 7.6
Freezing point: -218°F
Vapor Pressure of can : (Air=1):0.0569 Mpa @37.8 C
Partition coefficient: n-octanol / water: 2.75 (141B)
Total VOC% < 15% (0.8614 lbs. / gallon nominal)
Solubility in water: (weight %) 0.17% @ 77°F at the vapor pressure of the compound

Boiling Point: 54 C
Lower Explosive Limits: (volume % in air) 5
Auto-ignition Temperature: N/D
Specific Gravity: (H20=1): @75°F :1.32
Ph Value: Neutral
Decomposition Temperature: 550°F
Evaporation rate (Diethyl ether=1): 0.72 **:**

12. STABILITY / REACTIVITY

- **Stability:** Stable
- **Conditions to avoid:** Avoid concentrate open flames and high temperatures.for safety; product is non-flammable with a zero flash point
- **Materials to avoid:** Avoid contact with strong oxidizing agents, elemental levels of Zinc, Aluminum, Magnesium and other reactive metals.
- **Hazardous decomposition products:** Hydrogen Chloride, Hydrogen Fluoride and Chlorine.
- **Hazardous Polymerization:** Will not occur.

13. TOXICOLOGICAL INFORMATION:

- **Basis for Assesment:** Information given is based on product data, a knowledge of the components and the toxicology of similar products.
- **Acute Toxicity Oral:** Non-toxic >5g/Kg bodyweight
- **Acute Toxicity Dermal:** Albino Rats (Sprague-Dawley) 4 hr LC50 ……62,000 ppm
- **Acute Toxicity Inhalation:** Albino Rats (Sprague Dawley) increased cholesterol/Decrease body weight….20,000 ppm NOEL……8,0000 ppm
- **Skin Irritation:** Not irritating, cool to the skin
- **Eye Irritation:** Irritation if in direct contact of spray
- **Respiratory Irritation:** Albino Rats Subchronic, Increase cholesterol/decrease body weight…20,000 ppm
- **Skin sensitization:** Not irritating,skin reaction for allergenic reactions unknown
- **Other Information:** Although this product does not require labeling, prolonged exposure to the skin may cause irritation and should be avoided. No adverse affects have been found and data from acute toxicity studies indicate a very low acute toxicity.

14. ECOLOGICAL INFORMATION:

- **Biodegradability:** – Minimal
- **Toxic:** Moderately toxic on Daphnia and Fish – 31.2 mg/L – 126 mg/L; algae, not toxic up to 44 mg/L
- **Octanol water partition coefficient:** Log P ow = 2.3

15. DISPOSAL CONSIDERATIONS:

- **Waste Disposal:** Recover or recycle if possible. Otherwise dispose to licensed disposal contractor.
- **Product Disposal:** Recover or recycle if possible. Otherwise dispose to licensed disposal contractor.
- **Container Disposal:** Drain container thoroughly. Send empty cans to metal reclaimer.

16. TRANSPORTATION INFORMATION:

- **UN No.:** Not established
- **ADR / RID Status:** Not regulated
- **IMDG Status:** Not regulated
- **ICAO / IATA Status:** (Aerosol cans under CO2 pressure) Consumer Commodity ID8000, Class 9, Packing Inst 910
- **US DOT Status:** (Aerosol Cans under CO2 pressure) Ground= ORM-D; Air= ORM-D-Air
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17. REGULATORY INFORMATION:

For European Union

- **EEC Classification:** Not classified
- **Hazard Symbol:** Not established
- **Risk phrases:** not established
- **Safety phrases:** Not established
    a. but recommend 23 (don't breath gas/fumes/vapor/spray)
    b. 24/25 (toxic in contact with skin and if swallowed), 36/37 (irritation to eyes and respiratiory system)
- **Council Directive 92/32/EEC Status**: these chemicals are listed on the EINECS (HCFC-225ca:207-016-9,HCFC-225cb:208-076-9)

For United States of America

- **SNAP Acceptable: HCFC-225ca and HCFC-225cb are listed as SNAP acceptable substitutes for CFCs in the Solvent cleaning Sector of the Clean Air Act.**
- **SNAP Acceptable replacement for Class I ODS**
- **Non-VOC: HCFC-225ca and HCFC-225cb are exempted from VOC regulations in the Clean Air Act**
- **TSCA Status:** These chemicals are listed on the TSCA Inventory
- **SARA Section 302:** None of the chemicals are Section 302 hazard.
- **SARA Section 311, 312:** Acute= Yes; Chronic = Yes; Fire = No; Reactivity = No; Pressure = No
- **SARA Section 313** = yes (HCFC-225ca, HCFC-225cb)

18. OTHER INFORMATION:

- **Hmis Rating (**Based on Conc.) 0=minimal, 1=slight, 2=moderate, 3=serious, 4=Extreme
- **HMIS Rated:** Health=2; Fire=0; Reactivity=0; Personal Protection=B
- This information is accurate to the best knowledge of Corrosion Protection & Solutions dba Lektro-Tech, and is offered as a guide to the safe use of this product. The information contained in this material Safety Data Sheet is furnished without warranty of any kind, express or implied, and relates only to the specific material designated herein. Lektro-Tech assumes no responsibility for use or reliance on this data and assumes no liability for damages to the use or misuse of this product. The user is responsible for determining the conditions of safe use of this product and for complying with all Federal, State, Local and International laws and regulations.

19. <u>SUPER CORR-A is the direct replacement for Super Corr-B, having the same special formulation, but using AK225T solvent in place of the retired HCFC 141B solvent</u>. Reference: EPA SNAP Program, September 2004, page iii, U.S. Solvent cleaning Industry and Transition to Non Ozone Depleting Substances