

MATERIAL SAFETY DATA SHEET

Finished Product



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MSDS Ref. No: RX-500-12
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ECG Contact Cleaner/Lubricant

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ECG Contact Cleaner/Lubricant
PRODUCT DESCRIPTION: Cleaner/Lubricant
PRODUCT CODE: RX500-12

MARKETER
NTE Electronics, Inc.
44 Farrand Street
Bloomfield, NJ 07003

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
CANUTEC: (613) 996-6666
Emergency Phone: 1-888-748-1777 8:00 am – 5:00 pm CST

Phone: 973-748-5089

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S. NUMBER	Weight %
Isohexane, a mixture of:		
2-methylpentane	107-85-5	30.0-40.0
3-methylpentane	96-14-0	10.0-20.0
2,2-Dimethylbutane	75-83-2	10.0-20.0
2,3-Dimethylbutane	79-29-8	10.0-20.0
n-hexane	110-54-3	0.1-3.0
Methylcyclohexane	108-87-2	1.0-10.0
Silicone Oil	63148-62-9	1.0-5.0
Propane/isobutene	74-98-6 / 75-28-5	15.0-30.0

3. HAZARDS IDENTIFICATION

Emergency Overview: Clear, colorless liquid with mild hydrocarbon solvent. This product is extremely flammable. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product 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 the mouth, throat and stomach. May cause vomiting.

Inhalation: Harmful if inhaled. High concentrations in immediate area can displace oxygen and 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.

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 persists. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting. Keep head below knees to minimize chance of aspirating material into the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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 & method: -20 f (isohexane) LEL/UEL: 1.2/7.0 (% 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 protect gear

6. ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (i.e. 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 that lead to waterways.

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

7. HANDLING AND STORAGE

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

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
2-methylpentane	50 PPM	NA	1000 PPM
3-methylpentane	500 PPM	NA	1000 PPM
2,3-Dimethylpentane	500 PPM	NA	1000 PPM
2,2-Dimethylpentane	500 PPM	NA	1000 PPM
n-Hexane	50 PPM	500 PPM	NA
Methylcyclohexane	400 PPM	500PPM	NA
Silicone Oil	NA	NA	NA
Propane	NA	1000PPM	NA
Isobutane	NA	NA	NA

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 TLV's during the use of this product. If vapor concentration needs TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields or goggles and rubber or other chemically resistant gloves when handling this material.

NEPA and HMIS Codes:

	NFPA	HMIS
Health	1	1
Flammability	3	3
Reactivity	1	1
Personal Protection	-	B

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless Liquid
Odor: Mild hydrocarbon solvent
pH: NA
Vapor Pressure: 229 mmHg @ 68F (liquid)

Solubility in Water: Negligible
Specific Gravity: 0.67 @ 68F
Evaporation Rate: <1 (Butyl acetate = 1)
Vapor Density: 3 (isohexanes)
Percent Volatile: 100 %

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 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

11. TOXICOLOGICAL INFORMATION

Inhalation: Methylcyclohexane LC50 mouse 41500 mg/m³/2H
Ingestion: Methylcyclohexane LD50 2250mg/kg
Skin: Methylcyclohexane LD>86700 mg/kg
Cancer Information: No ingredients listed as human carcinogens by NTP or IARC
Reproductive effects: none Teratogenic effects: none Mutagenic effects: none

12. ECOLOGICAL INFORMATION

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

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION INFORMATION

Proper Shipping Name	UN Number	Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max Quantity
<u>Air:</u> Aerosols flammable	UN 1950	2.1	NA	NA	Flammable Gas	203	75/150 kg
<u>Ground:</u> Consumer Commodity ORM-D	NA	ORM-D	NA	NA	ORM-D	Pkg. Auth.	173.306

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 (40CFR372).

n-hexane

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.

WHMIS: Class A; Class B5; Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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 release.

To the best of our knowledge, the information contained 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.