

**SAFETY DATA SHEET**  
**Finished Product**



**Date-Issued: 6/5/2006**  
**SDS Ref. No: RX500-12**  
**Date-Revised: 2/14/2020**  
**Revision No: 002**

**ECG Contact Cleaner/Lubricant**  
**RX500-12**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Brand Name</b>	RX500-12
<b>Product Description:</b>	ECG Contact Cleaner/Lubricant
<b>Product Code</b>	RX500-12
<b>Marketer Contact Information:</b>	NTE Electronics, Inc. 44 Farrand Street Bloomfield, NJ 07003 973-748-5089
<b>Emergency Phone:</b>	CHEMTREC 800-424-9300

**SECTION 2. HAZARDS IDENTIFICATION**

<b>Classification of the Substance or Mixture</b>	FLAMMABLE AEROSOL 1 – H222 COMPRESSED GAS – H280
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**GHS Label Elements**

<b>Hazard Pictograms</b>	Two red diamond-shaped hazard pictograms are shown side-by-side. The first contains a black flame symbol, representing flammability. The second contains a black gas cylinder symbol, representing compressed gas.
<b>Single Word</b>	Danger
<b>Hazard Statements</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS**

<b>Description</b>	<b>CAS Number</b>	<b>%</b>
Mineral Seal Oil	64742-30-9	40 - 50
Carbon Dioxide	124-38-9	1 - 5
Heavyaliphatic Solvent Naphtha	64742-96-7	40 - 55

**SECTION 4. FIRST-AID MEASURES**

**Description of Necessary First Aid Measures**

<b>General</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
<b>Inhalation</b>	Cough. Assure fresh air breathing. Allow the victim to rest.
<b>Skin Contact</b>	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
<b>Eye Contact</b>	Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
<b>Ingestion</b>	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**SECTION 4. FIRST-AID MEASURES (Cont'd)****Most Important Symptoms/Effects, Acute and Delayed**

<b>Inhalation</b>	Shortness of breath.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.

**Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary**

No additional information available.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Foam. Dry Powder. Carbon Dioxide. Water Spray. Sand.
<b>Specific Hazards Arising from the Chemical</b>	Fire Hazard: Extremely flammable aerosol. Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
<b>Special Protective Actions for Firefighters</b>	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
<b>Special Protective Equipment for Firefighters</b>	Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Other Information</b>	Aerosol level 3

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures**

<b>General Measures</b>	No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
<b>For Non-Emergency Personnel</b>	Protective Equipment: Gloves, Safety Glasses Emergency Procedures: Evacuate unnecessary personnel
<b>For Emergency Responders</b>	Protective Equipment: Equip cleanup crew with proper protection Emergency Procedures: Ventilate area
<b>Environmental Precautions</b>	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Methods and Materials for Containment and Cleaning Up**

<b>For Containment</b>	Dam up the liquid spill.
<b>Methods for Cleaning Up</b>	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**SECTION 7. HANDLING AND STORAGE****Precautions for Safe Handling**

<b>Additional Hazards when Processed</b>	Hazardous waste due to potential risk of explosion. Pressurized container. Do not pierce or burn, even after use.
<b>Precautions for Safe Handling</b>	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source.
<b>Hygiene Measures</b>	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**SECTION 7. HANDLING AND STORAGE (Cont'd)****Conditions for Safe Storage, including any Incompatibilities**

<b>Technical Measures</b>	Proper grounding procedures to avoid static electricity should be followed.
<b>Storage Conditions</b>	Keep only in the original container in a cool, well ventilated place away from direct sunlight and heat sources. Keep container closed when not in use. Do not expose to temperatures exceeding +50°C / +122°F. Keep in fireproof place.
<b>Incompatible Products</b>	Strong bases. Strong acids.
<b>Incompatible Materials</b>	Sources of ignition. Direct sunlight. Heat sources.
<b>Storage Area</b>	Store in a well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****CONTROL PARAMETERS**

<b>Carbon Dioxide (124-38-9)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	9000mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (ppm)	5000ppm
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	54000
USA ACGIH	ACGIH STEL (ppm)	30000ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	9000mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	5000ppm

**Appropriate Engineering Controls**

<b>Hand Protection</b>	Wear protective gloves.
<b>Eye Protection</b>	Chemical goggles or safety glasses.
<b>Respiratory Protection</b>	Wear respiratory protection. Wear appropriate mask.
<b>Other Information</b>	Do not eat, drink or smoke during use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

<b>Physical State</b>	Gas
<b>Appearance</b>	Colorless to pale yellow liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Relative Evaporation Rate (Butyl Acetate=1)</b>	0.19
<b>Melting Point</b>	-58°C
<b>Freezing Point</b>	Not available
<b>Boiling Point</b>	> +180°C
<b>Flash Point</b>	> +84°C
<b>Auto-Ignition Temperature</b>	+236°C
<b>Decomposition Temperature</b>	Not available.
<b>Flammability (Solid, Gas)</b>	Not available.
<b>Vapor Pressure</b>	0.013kPa
<b>Relative Vapor Density at +20°C</b>	4.5
<b>Relative Density</b>	0.8
<b>Solubility</b>	Insoluble in water
<b>Log Pow</b>	Not available
<b>Log Kow</b>	Not available
<b>Viscosity, Kinematic</b>	1.92cSt @ +40°C
<b>Viscosity, Dynamic</b>	Not available
<b>Explosive Properties</b>	Not available
<b>Oxidizing Properties</b>	Not available

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No additional information available.
<b>Chemical Stability</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.
<b>Possibility of Hazardous Reactions</b>	Not established.
<b>Conditions to Avoid</b>	Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.
<b>Incompatible Materials</b>	Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	Toxic fume. Carbon monoxide. Carbon dioxide.

**SECTION 11. TOXICOLOGICAL INFORMATION****Toxicological (Health) Effects**

<b>Acute Toxicity</b>	Not classified
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**Aliphatic Hydrocarbon (64742-96-7)**

<b>LD50 Oral Rat</b>	> 19200mg/kg
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**Information on the Likely Route of Exposure**

<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified based on the available data, the classification are not met.
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified based on the available data, the classification are not met.
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeat Exposure)</b>	Not classified based on the available data, the classification are not met.
<b>Aspiration Hazard</b>	Not classified based on the available data, the classification are not met.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics****Potential Adverse Human Health Effects and Symptoms**

<b>Symptoms/Injuries after Inhalation</b>	Shortness of breath.
<b>Symptoms/Injuries after Ingestion</b>	May be fatal if swallowed and enters airways.

**SECTION 12. ECOLOGICAL INFORMATION****Toxicity****Carbon Dioxide, Liquefied, Under Pressure (124-38-9)**

<b>LC50 Fish 1</b>	35mg/l (96 h; Salmogairdneri (Oncorhynchusmykiss); Lethal)
<b>LC50 Fish 2</b>	60 – 240mg/l (12h; salmogairdneri (Oncorhynchusmykiss); Lethal)

**Persistence/Degradability****Lubricant**

<b>Persistence and Degradability</b>	Not established
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**Aliphatic Hydrocarbon (64742-96-7)**

<b>Persistence and Degradability</b>	Readily biodegradable in water. Biodegradable in the soil. Absorbs into the soil.
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**Photodegradation in the Air**

<b>Chemical Oxygen Demand (COD)</b>	2.25g O/g substance
<b>ThOD</b>	2.89g O/g substance
<b>BOD (% of ThOD)</b>	> % ThOD (5 day(s)) > 0.5

**SECTION 12. ECOLOGICAL INFORMATION (Cont'd)****Carbon Dioxide, Liquefied, Under Pressure (12-38-9)**

<b>Persistence and Degradability</b>	Biodegradability: Not applicable
<b>Biochemical Oxygen Demand (BOD)</b>	Not applicable
<b>Chemical Oxygen Demand (COD)</b>	Not applicable
<b>ThOD</b>	Not applicable
<b>BOD (% of ThOD)</b>	Not applicable

**Bioaccumulative Potential****Lubricant**

<b>Bioaccumulative Potential</b>	Not established
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**Aliphatic Hydrocarbon (64742-96-7)**

<b>Log Pow</b>	5.24 – 7.18 (QSAR)
<b>Bioaccumulative Potential</b>	Not established

**Carbon Dioxide, Liquefied, Under Pressure (124-38-9)**

<b>Log Pow</b>	0.83 (Experimental value)
<b>Bioaccumulative Potential</b>	Low potential for bioaccumulation (Log Kow < 4)

**Mobility in Soil****Aliphatic Hydrocarbon (64742-96-7)**

<b>Surface Tension</b>	0.033 N/m (20°C)
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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

<b>Waste Disposal Recommendations</b>	Dispose of contents/containers to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.
<b>Additional Information</b>	Flammable vapors may accumulate in the container.
<b>Ecology – Waste Materials</b>	Hazardous waste due to toxicity. Avoid release to the environment.

**SECTION 14. TRANSPORT INFORMATION****UN Proper Shipping Name**

<b>DOT Proper Shipping Name</b>	Aerosols flammable, (each not exceeding 1 L capacity)
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**Department of Transportation (DOT)**

<b>Hazard Classes</b>	2.1 – Class 2.1 – Flammable gas 49 CFR 173.115
<b>Hazard Labels (DOT)</b>	
<b>DOT Special Provisions (49 CFR 172.102)</b>	N82 – See 173.306 of this subchapter for classification criteria for flammable aerosols.
<b>DOT Packaging Exceptions (49 CFR 173.xxx)</b>	306
<b>DOT Packaging Non Bulk (49 CFR 173.xxx)</b>	None
<b>DOT packaging Bulk (49 CFR 173.xxx)</b>	None

**Overland Transport**

<b>Additional Information</b>	No additional information available.
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**Transport by Sea**

<b>DOT Vessel Stowage, Location</b>	A – The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
<b>DOT Vessel Stowage, Other</b>	48 – Stow “away from” sources of heat 87 – Stow “separated from” Class 1 (explosives) except Division 14 126 – Segregation same as for Class 9, miscellaneous hazardous materials

**SECTION 14. TRANSPORT INFORMATION (Cont'd)****Air Transport**

<b>DOT Quality Limitations Passenger Aircraft/Rail (49 CFR 173.27)</b>	75 kg
<b>DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75)</b>	150 kg
<b>Other Information</b>	No supplementary information available

**SECTION 15. REGULATORY INFORMATION****U.S. Federal Regulations****Lubricant**

<b>SARA Section 311/312 Hazard Class</b>	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard Sudden release of pressure hazard
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**International Regulations, Canada****Lubricant**

<b>WHMIS Classification</b>	Class B Division 5 – Flammable Aerosol
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**EU Regulations****Lubricant**

<b>Classification According to Directive 67/548/EEC or 1999/45/EC</b>	Not classified
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**US State Regulations**

<b>Additional Information</b>	No additional information available
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**SECTION 16. OTHER INFORMATION****Further Information**

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