

Issue Date: 20-Jan-2015

Review Date: 03-Mar-2021

Version 1

1. IDENTIFICATION

Product Identifier

Product Name PRECISION ELECTRONIC CLEANER NC (AEROSOL)

Other means of identification

SDS #

ITEM# M-05490

UN/ID No

UN 1950

Recommended use of the chemical and restrictions on use

Recommended Use Solvent Degreaser

Details of the supplier of the safety data sheet

Supplier Address

 Ashburn Chemical Technologies
 7403 Wright Rd
 Houston, TX 77041

Emergency Telephone Number

Company Phone Number

832-399-1000

Emergency Telephone (24 hr)

 INFOTRAC 1-352-323-3500 (International)
 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear
 Colorless / yellow

Physical State Aerosol

Odor Solvent, Strong

Classification

DISSOLVED GAS

Skin irritant	Category 2
Eye Irritant	Category 2 A
Productive Toxicity	Category 1A
Specific Target Organ Toxicity (Single Exposure)	Category 3A
Specific Target Organ Toxicity (Single Exposure)	Category 2

Hazard Not Otherwise Classified (HNOC)

Signal Word

DANGER


Hazard Statements

Contains gas under pressure: May explode if heated

Causes skin and eye irritation

May damage fertility or the unborn child

May cause respiratory irritation, drowsiness, or dizziness.

May cause damage to Central Nervous System, Reproductive System, Kidney, and Liver through prolonged or repeated exposure.

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear chemical resistant gloves and safety glasses

Avoid breathing fumes, mist, vapors, and spray.

Use only outdoors or in a well-ventilated area.

Keep away from heat, sparks, open flames, and 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. Protect from sunlight.

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

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

IF ON SKIN: wash with plenty of water. If skin irritation occurs, get medical advice/attention.

IF ON EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: get medical attention.

If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

IF SWALLOWED: Immediately call a poison center or doctor. Do NOT induce vomiting.

Precautionary Statements – Storage

Store locked up.

Protect from sunlight.

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

Keep container tightly closed.

Precautionary Statements – Disposal

Dispose of contents and container in accordance with local, state, and national regulations.

Other Hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
n-Propyl Bromide	106-94-5	60-100%
Carbon Dioxide	124-38-9	1-5%

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures****General Advice**

Provide this SDS to medical personnel for treatment.

Eye Contact

Flush immediately with copious amounts of water for 15 minutes. If irritation persists, see physician.

Skin Contact

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Ingestion

Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

Most important symptoms and effects

Acute Health Hazard	Headache, drowsiness, dizziness, nausea, vomiting or narcosis
Chronic Health Hazard	Repeated inhalation of high concentrations may cause lung, liver, kidney, urinary, blood, bone marrow, heart, eye, central nervous system, gastrointestinal, reproductive, developmental and fertility effects.

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical, carbon dioxide, foam, and water spray or fog.

Unsuitable Extinguishing Media Do not use straight streams.

Specific Hazards Arising from the Chemical Not determined.

Hazardous Combustion Products Oxides of carbon, hydrogen halides, bromides.

Protective equipment and precautions for firefighters

Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus(SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental Precautions Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

SPILL

Methods for Clean-Up Remove any source of ignition. Use non-sparking tools and equipment. Use absorbent on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

Waste Disposal Dispose of in accordance with local, State and Federal regulations. Do not dump in sewers. Use sand or other non- combustible absorbent material to clean up spill and place in container for later disposal. Containers may contain hazardous residue.

RCRA STATUS Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261)

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.
Incompatible Materials	Strong alkalies, oxidizers, bases, reactive metals, and natural rubber.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-Propyl Bromide	10 ppm	25 ppm	-
Carbon Dioxide	5000 ppm	5000 ppm	-

Appropriate engineering controls

Engineering Controls	Use only outdoors or in a well-ventilated area.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	If contact is likely, safety glasses with side shields are recommended.
Skin and Body Protection	If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Wear NIOSH/MSHA approved organic vapor respiratory protection if used in confined, poorly ventilated areas.
General Hygiene Considerations	Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Aerosol	Odor	Strong solvent odor
Appearance	Clear	Odor Threshold	Not determined
Color	Colorless / light yellow		
Property	Values	Remarks • Method	
pH	Not determined		
Freezing Point	-166.8°F / -110.5°C		
Boiling Point	158 °F / 70° C		
Flash Point	Not determined		
Auto-ignition Temperature	Not determined		
Flammability (Solid, Gas)	Not considered a flammable aerosol by OSHA (29CFR 1910.1200)		
Upper / Lower Flammability Limit	Not determined		
Vapor Pressure	110.8	77°F / 25°C	
Vapor Density	> 1	(Air=1) 77°F / 25°C	
Evaporation Rate	4.7 (fast)	(butyl acetate = 1)	
Specific Gravity	1.3	(1=Water)	
Water Solubility	Insoluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined	n-OCTANOL/WATER (KOW)	
Auto-ignition Temperature	Not determined		
Volatility Including Water	100% volatile		
VOC Content (%)	77%		
Dielectric Strength (volts)	Not determined		

100% Vo

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Temperatures greater than 122°F and source of ignition. Prolonged contact with free water will result in diminished stabilizer and corrosion
Incompatible Materials	Strong alkalis, oxidizers, bases, reactive metals, and natural rubber.
Hazardous Decomposition Products	Oxides of carbon, hydrogen halides, bromides

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye Contact	Causes irritation.
Skin Contact	Causes mild irritation, dryness, localize defatting.
Inhalation	Causes irritation to the respiratory tract, headache, dizziness, nausea, vomiting or narcosis. May cause liver damage
Ingestion	Nausea and gastric discomfort

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
n-Propyl Bromide CAS# 106-94-5	3600 mg/kg (Rat)	-	253,000 mg/m3 (Rat) 0.5 hr

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	OSHA: No ACGIH: No NTP: No IARC: 2B - Possible OTHER: CA Prop 65.
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12. ECOLOGICAL INFORMATION

Ecotoxicity	This material is toxic to aquatic life.
Component Information	n-Propyl Bromide (106-94-5) Not considered to be a bioaccumulatorLC50 (Fathead Minnow, 96hr) 67 mg/L; EC50 (Daphnia, 24hr) 208.9 mg/L
Persistence/Degradability	
Bioaccumulation	This product is not expected to bioaccumulate.
Mobility	This product is mobile in soil.
Other Adverse Effects	Not determined

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes

Dispose of in accordance with local, state and federal regulations.

RCRA STATUS

Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40CFR 261).

14. TRANSPORT INFORMATION**DOT**

UN/ID No UN1950
 Proper Shipping Name Aerosols, Ltd. Qty
 Hazard Class 2.2
 Packing group None

IATA

UN/ID No UN1950
 Proper Shipping Name Aerosols, Ltd. Qty
 Hazard Class 2.2
 Packing group None

IMDG

UN/ID No UN1950
 Proper Shipping Name Aerosols, Ltd. Qty
 Hazard Class 2.2
 Packing group None

15. REGULATORY INFORMATION**International Inventories**

n-Propyl Bromide (106-94-5)
 Canada (DSL): Ingredients listed WHMIS: Class D Division 2B, WHMIS-HC-1

US Federal Regulations

TSA STATUS: All Chemicals are listed or exempt.
CERCLA : None
SARA 311/312 Hazard Categories: Immediate
SARA 313 **1, 2-Butylene Oxide** (106-88-7) < 0.6% by weight

US State RTK Regulations

1,2-Butylene Oxide (106-88-7) CA, FL, MN, MA, NJ, PA
Propyl Bromide (106-94-5) MA, NJ, PA

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm
Propyl Bromide (106-94-5) Developmental

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

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Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

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Issue Date:

20-Mar-2015

Revision Date:**Revision Note:**

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet