



## Description

The 401B *Nu-Trol™ Control Cleaner for Electronics* is a unique blend of high purity solvents and a lubricating mineral oil that is excellent for cleaning and lubricating delicate moving parts in electronics. The solvent system also effectively dissolves oil and organic residues.

This product is useful in a variety of electronics applications such as controls, potentiometers, dials, switches, tuners, and servomechanisms.

## Features and Benefits

- **Suitable for use in food facilities as a non-food chemical**—Canadian and NFS recognition letters available on request
- **Safe on many plastics**
- **Contains electronic grade mineral oil**
- **CARB and RoHS compliant**

## Usage Parameters

<i>Properties</i>	<i>Value</i>
Shelf Life	5 y

## Temperature Ranges

<i>Properties</i>	<i>Value</i>
Storage Temperature Limits <sup>a)</sup>	-20 to 40 °C [-4 to 104 °F]

a) Storage below zero is not necessary. Cool, dry, and well ventilated area recommended.

## Properties

<i>Physical Properties</i>	<i>Method</i>	<i>Value</i>
Color	—  Closed Cup	Clear
Odor		Mild hydrocarbon
Density @25°C [77 °F]		0.73 g/mL
Viscosity @25°C [77 °F]		<20.5 mm <sup>2</sup> /s
Flash Point		-29 °C [-20 °F]
Boiling Point		52 °C [126 °F]
Vapor Pressure @25°C [77 °F]		22 kPa [167 mmHg]
Volatile Organic Content (VOC)		75%
Solubility in Water		Insoluble

## Compatibility

**Substrate Compatibility:** Consult 401B partial compatibility chart table for substrate compatibility. It is always recommended to perform a compatibility test on a non-critical test area prior to large scale applications. Perform this test even if the chart predicts high compatibility since modern plastic parts may incorporate hidden incompatible materials in the form of plastic blends or as protective and decorative coatings.

### Compatibility Chart

Plastic type	Resistance
Epoxy	Very Good
ABS (acrylonitrile butadiene styrene)	Poor
PMMA (Acrylic)	Good
PVC (Polyvinyl chloride)	Good
HD-PE (high density polyethylene)	Good
LD-PE (low density polyethylene)	Partial
PP (polypropylene)	Good
PS (polystyrene)	Partial
PC (Polycarbonate)	Poor

#### **ATTENTION!**

Use with care on thin plastics or near parts that are chemically sensitive.

**Solvent Miscibility:** The 401B is generally miscible organic solvent, but it is immiscible with water.

## Health, Safety, and Environmental Awareness

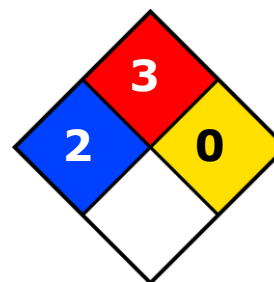
Please see the 401B **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

**Health and Safety:** This liquid is flammable and should be kept away from flames and other ignition sources. Avoid breathing in fumes or direct contact with the material.

### HMIS® RATING

<b>HEALTH:</b>	* 2
<b>FLAMMABILITY:</b>	3
<b>PHYSICAL HAZARD:</b>	0
<b>PERSONAL PROTECTION:</b>	

### NFPA® 704 CODES



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

**Environmental Impact:** It is RoHS and CARB compliant.



ISO 9001 Registered Quality System.  
Burlington, Ontario, Canada QMI File # 004008

# Nu-Trol™ Control Cleaner for Electronics 401B Technical Data Sheet

401B-Aerosol

## Application Instructions

### To clean residues in aerosol format

1. Spray dirty area.
2. Ensure that wash runs off the circuit board along the shortest unencumbered path to prevent redeposit of solvated residues

## Packaging and Supporting Products

<i>Cat. No.</i>	<i>Packaging</i>	<i>Net Volume</i>		<i>Net Weight</i>		<i>Packaging Weight</i>	
<b>401B-140G</b>	Aerosol	188 mL	6.35 fl oz	140 g	4.93 oz	2.2 kg <sup>a)</sup>	4.9 lb <sup>a)</sup>
<b>401B-340G</b>	Aerosol	457 mL	15.4 fl oz	340 g	11.9 oz	4.6 kg <sup>a)</sup>	10 lb <sup>a)</sup>

a) Case pack of ten

### Supporting Products

- *Hog Hair Cleaning Brush*: Cat. No. 852
- *Large Hog Hair Cleaning Brush*: Cat. No. 853

## Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

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## Disclaimer

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