Nutrol Control Cleaner

401B

Contains a unique blend of high purity solvents and special lubricating oils for restoring electronic continuity and lubricating moving parts. Perfect for cleaning and lubricating locks, relays, hinges, controls, signals, contacts, selector switches, office equipment, power tools, servomechanisms, and equipment needing greaseless lubrication.

- Static Free
- Safe on plastics
- 100% Ozone safe
- Variable valve allows user to control rate of flow

Available Sizes

Catalog Number	Sizes Available	Description
401B-140G	140g (5 oz)	Aerosol
401B-340G	340g (12 oz)	Aerosol

Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 401B - aerosol Name: Nutrol Control Cleaner with Lubrication

Related Part Numbers: 401B-140G; 401B-340G

Use: Cleans and lubricates controls and contacts.

Hazard Overview: Product is extremely flammable. Do not use on live circuits. Keep away from cigarettes, open flames, and other sources of ignition. Vapors are mildly irritating. Use in a well ventilated area. Repeated skin contact can cause dermatitis.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
75-83-2	2,2 Dimethylbutane	8 - 12	500ppm	500ppm	N/e
96-14-0	3-methyl pentane	7 - 10	500ppm	500ppm	N/e
79-29-8	2,3 Dim ethyl butane	5 - 8	500ppm	500ppm	N/e
64741-44-2	Mineral oil (hydro treated)	30 - 45	5 mg/m^3	N/e	N/e
107-83-5	2 - methyl pentane	20 - 28	500ppm	500ppm	N/e
811-97-2	1,1,1,2 tetrafluoroethane	18 - 30	1000ppm	N/e	N/e
110-54-3	N-hexane	1 - 2	50ppm	50ppm	N/e

Section 3: Hazards Identification

WHMIS Codes A, B5, D2B

NFPA Ratings: Health 2 Flammability 3 Reactivity 0

HMIS Ratings: Health 2 Flammability 4 Reactivity 0

Eyes: May cause mild eye irritation.

Skin: May cause mild skin irritation.

Inhalation: Vapors may be mildly irritating to the mucous membranes of the respiratory tract. High vapor concentrations may result in dizziness, headache, excitation, weakness, and drowsiness.

Ingestion: Aspiration Hazard. May cause weakness and gastrointestinal tract irritation.

Chronic: Repeated skin contact will cause dermatitis. Long-term intensive exposure to vapors could cause benign lung fibrosis.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid if symptoms persist.

Skin: Wash skin with large amount of soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. If breathing is difficult, give oxygen. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Get medical aid immediately.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Guard against aspiration into the lungs by having the individual turn onto their left side. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature: N/e **Flash Point:** -29°C **LEL / UEL:** 1 / 7

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

General Information: Will burn if involved in a fire. Containers may explode in the heat of a fire. Highly flammable vapors are heavier than air and may accumulate in low areas. Flash back along vapor trail is possible.

Section 6: Accidental Release Measures

Spill Procedure: Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Aerosol	**Odor:**	Mild hydrocarbon	**Solubility:**	Insoluble	**Evaporation Rate:**	0.3 (ether = 1)		
Boiling Point:	106°C	**Specific Gravity:**	0.83	**Vapor Pressure:**	48 PSI @21°C	**Vapor Density:**	1.6 (Air=1)	**pH:**	7

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40°C, ignition sources, and incompatible substances.

Incompatibilities: Alkali and alkaline earth metals, powdered aluminum, zinc, magnesium, and beryllium, strong oxidizing agents.

Polymerization: Will not occur.

Decomposition: Halogens, halogen acids, possibly carbonyl halides, carbon dioxide, and carbon monoxide.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) No

Carcinogenicity: (risk of cancer) The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program)

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) No

Mutangenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations: **Ingestion (LD50):** 28g/kg (rabbit) **Inhalation (LC50):** 3125 ppm/4h (rat) **Skin (LD50):** N/e

Section 12: Ecological Information

General Information: Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0 **HFC:** 24 **Cl.Solv:** 0 **VOC:** 76 **HCFC:** 0 **ODP:** 0

Section 13: Disposal Information

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

Section 14: Transportation Information

Ground:

Consumer Commodity, ORM-D

Air:

Shipper must be trained and certified. Refer to IATA regulations

Sea:

UN#1950, Class 2.1. Shipper must be trained and certified. Refer to IMDG regulations.

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product does not contain any chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.