

SAI Global File #004008

401B-Aerosol

Burlington, Ontario, Canada

NIJ-TROLTM CONTROL CLEANER

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Nu-trol[™] Control Cleaner

SDS Code: 401B-Aerosol

Related Part # 401B-140G, 401B-340G

Recommended Use and Restriction on Use

Use: Cleans and lubricates electrical contacts

Uses Advised Against: Do NOT use on live circuits or in presence of ignition source

Details of Manufacturer or Importer

Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

A +1-800-340-0772 FAX +1-800-340-0773 E-MAIL support@mgchemicals.com WEB www.mgchemicals.com

MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7

CANADA

+1-905-331-1396 Fax +1-905-331-2682 E-MAIL info@mqchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents) USA or CANADA—Call CHEMTREC at +1-800-424-9300

For emergencies involving the transport of dangerous goods; 24/7 service CANADA—Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-AEROSOL

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria		Category	Signal Word	Pictograms
Aspiration Hazard		1	Danger	Health
Reproductive Toxicity		2	Warning	Health
Flammable Aerosol		2	Warning	Flame
Gases Under Pressure		Liquefied	Warning	Gas cylinder
		gas		
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity Si	ingle Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment Cl	Chronic	2	none	Environment

Note: The degree of severity is ranked within each hazard class from

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
<u> </u>	H304: May be fatal if swallowed and enters airways
	H361: Suspected of damaging fertility or the unborn child

Section continued on the next page

Page **2** of **17**Date: 22 February 2018 / Ver.2.03

^{1 (}Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.



SAI Global File #004008 Burlington, Ontario, Canada

NU-TROLTM CONTROL CLEANER

401B-AEROSOL

Continued...

Pictograms	Hazard Statements
^	H315: Causes skin irritation
	H336: May cause drowsiness or dizziness
***	H411: Toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
Response	Precautionary Statements
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.



SAI Global File #004008

401B-Aerosol

Burlington, Ontario, Canada

NU-TROLTM CONTROL CLEANER

Continued...

Response	Precautionary Statements
P312	Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.
Storage	Precautionary Statements
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
P403	Store in a well-ventilated place.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.	Warning	None
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
8042-47-5	white mineral oil (petroleum)	38%
811-97-2	1,1,1,2-tetrafluoroethane ^{a)}	25%
107-83-5	methyl-2-pentane	10–30%
96-14-0	methyl-3-pentane	5–10%
79-29-8	dimethyl-2,3-butane	3–7%
75-83-2	dimethyl-2,2-butane	3–7%
109-66-0	pentane	1–5%
110-54-3	n-hexane	1-5%

a) Also known as HFC-134a.



SAI Global File #004008

Burlington, Ontario, Canada

NU-TROLTM CONTROL CLEANER

401B-Aerosol

Section 4: First-Aid Mea	sures
Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF SWALLOWED	P301 + P310, P331
Immediate Symptoms	nausea, vomiting, abdominal pain, drowsiness, dizziness, weakness
Response	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
IF ON SKIN	P302 + P352, P332 + P313, P362 + P364
Immediate Symptoms	dry skin, redness, irritation
Response	Wash with plenty of water.
	If skin irritation occurs: Get medical advice/attention.
	Take off contaminated clothing and wash it before reuse.
	IF exposed or concerned: Get medical advice/attention.
IF INHALED	P304 + P340, P312
Immediate Symptoms	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue
Immediate Symptoms Response	drowsiness, dizziness, headache, nausea, cough, blurry
	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue Remove person to fresh air and keep comfortable for
	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue Remove person to fresh air and keep comfortable for breathing.
Response	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Response IF IN EYES	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338



SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-AEROSOL

Section 5: Fire-Fighting Measures

Extinguishing Media Use dry chemical, carbon dioxide, or chemical foam to

extinguish. Use water spray to cool containers.

Specific Hazards Aerosol containers may erupt with force at temperatures above

50 °C [122 °F].

The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.

Produces irritating and toxic fumes in fires or in contact with

hot surfaces.

The liquid may float on water and ignite.

Prevent fire-fighting wash from entering waterway or sewer

system.

Combustion Products Produces carbon oxides (CO, CO₂), halogenated compounds,

and hydrogen fluorides.

Fire-Fighter Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.

Section 6: Accidental Release Measures

Personal Protection See personal protection recommendations in Section 8.

Precautions for

Response

Avoid breathing the mist/spray/vapors.

Remove or keep away all sources of extreme heat or open

flames.

Environmental Precautions

Avoid releasing to the environment. Prevent spill from entering

drains and waterways.

Containment Methods

Not applicable

Cleaning Methods

Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the

container. Wash spill area with soap and water to remove the

last traces of residue.

Disposal Methods

Dispose of spill waste according to Section 13.



SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-Aerosol

Section 7: Handling and Storage

Prevention Keep out of reach of children.

Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Avoid breathing mist/vapors/spray. Use only outdoors or in a

well-ventilated area.

Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

Handling Wear protective gloves/protective clothing/eye protection/face

protecion.

Wash hands thoroughly after handling.

Avoid release to the environment.

Storage Protect from sunlight. Do not expose to temperatures

exceeding 50 °C [122 °F].

Store in a well-ventilated place.

Store locked up.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
white mineral oil	ACGIH	5 mg/m ³	Not established
(petroleum)	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	5 mg/m ³	10 mg/m ³
	Canada BC	Not established	Not established
	Canada ON	5 mg/m ³	10 mg/m ³
	Canada QC	5 mg/m ³	10 mg/m ³
1,1,1,2-	MG Chemicals a)	1 000 ppm	Not established
tetrafluoroethane	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada	Not established	Not established

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

NU-TROLTM CONTROL CLEANER

401B-AEROSOL

Continued...

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
methyl-2-pentane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
methyl-3-pentane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
dimethyl-2,3-butane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
dimethyl-2,2-butane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
pentane	ACGIH	600 ppm	Not established
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	600 ppm	Not established
	Canada BC	600 ppm	Not established
	Canada ON	600 ppm	Not established
	Canada QC	120 ppm	Not established
n-hexane	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	50 ppm	Not established
	Canada BC	50 ppm	Not established
	Canada ON	50 ppm	Not established
	Canada QC	50 ppm	Not established



SAI Global File #004008

Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-Aerosol

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH1, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from RTECS² database and data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

- a) MG Chemicals recommended limit corresponding to prevalent international threshold values
- b) Value vacated (retracted) under court order, but still in effect in some states.

Engineering Controls

Ventilation Keep airborne concentrations below the occupational exposure

limits (OEL).

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety

goggles.

RECOMMENDATION: Ensure that glasses have side shields for

lateral protection.

Skin Protection For likely contacts, use of protective butyl rubber or other

chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant

gloves.

Respiratory Protection For over-exposures up to 10 x OEL of mist/vapors/spray, wear

respirator such as a half-mask respirator with organic vapor

cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3.

The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed

plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.



SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-Aerosol

Section 9: Physical and Chemical Properties

Physical State	Liquid, in aerosol format	Lower Flammability Limit	1%
Appearance	Clear	Upper Flammability Limit	7.5%
Odor	Mild hydrocarbon	Vapor Pressure @20 °C	22 kPa [167 mmHg]
Odor Threshold	Not available	Vapor Density	2.98 (Air =1)
рН	Not available	Specific Gravity	0.73
Freezing/Melting Point	Not available	Solubility in Water	Immiscible
Boiling Point	52 °C [125 °F]	Partition Coefficient	Not available
Flash Point a)	-29 °C [-20 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	0.8 (Ether = 1)	Decomposition Temperature	Not available
Flammability (solid, gas)	Not applicable	Viscosity @40°C	<20.5 mm ² /s

a) Closed cup flash point

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Avoid open flames, ignition sources, temperatures above 50 $^{\circ}\text{C}$ [122 $^{\circ}\text{F}$], and incompatible substances
Incompatibilities	Strong oxidizing agents, alkaline and alkaline-earth metals, powdered aluminium, zinc, magnesium and beryllium
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-Aerosol

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Eyes Low toxicity: May cause redness and pain.

Skin Causes dry skin, redness, and irritation.

Inhalation May cause dizziness, drowsiness, headaches, nausea, cough, blurry

vision, and fatigue.

Ingestion May cause nausea, vomiting, and abdominal pain. See inhalation

symptoms.

Chronic Prolonged or repeated exposure may cause skin dryness and a

dermatitis.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
white mineral oil (petroleum)	>5 000 mg/kg	Not	Not
	Rat	available	available
1,1,1,2-tetrafluoroethane	Not	Not	1 500 g/m³
	available	available	4 h Rat
methyl-2-pentane	Not	Not	3 125 ppm
	available	available	4 h Rat ^{a)}
methyl-3-pentane	Not	Not	Not
	available	available	available
dimethyl-2,3-butane	Not	Not	Not
	available	available	available
dimethyl-2,2-butane	Not	Not	Not
	available	available	available
pentane	>2 000 mg/kg	Not	<20 000 ppm
	Rat	available	Rat 4 h (vapor)
n-hexane	15 840 mg/kg	2 000 mg/kg	48 000 ppm
	Rat	Rabbit	4 h Rat

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

a) Supplier SDS

Section continued on the next page

Page **11** of **17**



SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner 401B-Aerosol

Other Toxicological Effects

Skin corrosion/irritation Causes skin irritation.

Serious eye Based on available data, the classification criteria are

damage/irritation not met.

Sensitization Based on available data, the classification criteria are

(allergic reactions) not met.

Carcinogenicity Not classified or listed as a carcinogen by IARC, ACGIH,

(risk of cancer) CA Prop 65, or NTP.

Mutagenicity Based on available data, the classification criteria are

(risk of heritable genetic effects) not met.

Reproductive Toxicity Based on available data, the classification criteria are

(risk to sex functions) not met.

Teratogenicity The n-hexane component causes harm to fetus

(risk of fetus malformation) according to animal studies.

STOT-single exposure Hexane isomers can affect the central nervous system

by inhalation causing drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are

not met.

Aspiration hazard Mixture is a class 1 aspiration hazard. It contains over

10% class 1 aspiration hazard components and has a

mixture viscosity of <20.5 mm²/s at 40 °C.



SAI Global File #004008

Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-Aerosol

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (http://echa.europa.eu), and other reliable sources.

Similar mixtures of isoalkanes C6-C7 with <5% n-hexane have a LC50 of 11.4 mg/L for rainbow trout (Oncorhynchus mykiss) 96 h, and an EL50 of 3.0 mg/L water flea (Daphnia magna) 48 h.

According to data available, white mineral oil is not classifiable as a danger to the aquatic environment.

Acute Ecotoxicity

See chronic ecotoxicity.

Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

Biodegradability

Not available

Other Effects

Actual VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

Actual VOC = 75% [495 q/L]

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.



SAI Global File #004008

401B-Aerosol

Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

Section 14: Transport Information

Ground

Refer to TDG (Canadian Transportation of Dangerous Goods regulations) and USA DOT 49 CFR (Parts 100 to 185) Regulations.

Limited Quantity



UN number: UN1950 Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Limited Quantity



UN number: UN1950 Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

Sea

Refer to IMDG regulations.

Limited Quantity



UN number: UN1950 Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-Aerosol

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

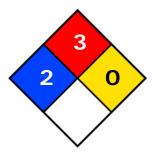
USA

Other Classifications

HMIS® RATING

HEALTH:	*	2
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

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

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.



SAI Global File #004008 Burlington, Ontario, Canada

Nu-trolTM Control Cleaner

401B-AEROSOL

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

This product does not contain ingredients that are 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.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, January 27, 2017 revision, USA).

This product contains n-hexane, which is listed as reproductively toxic.

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

SDS Prepared by Michel Hachey

Date of Review 22 February 2018 Supersedes 02 October 2017

Reason for Changes: Added California proposition 65 hazard statement for n-hexane

(reproductive hazard) in section 15.

Reference

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)



SAI Global File #004008 Burlington, Ontario, Canada

NU-TROLTM CONTROL CLEANER

401B-Aerosol

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists (USA)

FCHA **European Chemicals Agency**

FU European Union

EC50 Half maximal effective concentration

EL50 Half maximal effective loading

IARC International Agency for Research on Cancer

No observable effect loading ratio NOELR National Toxicology Program NTP

GHS Globally Harmonized System of Classification of Labeling of Chemicals

LC50 Lethal Concentration 50%

Lowest published lethal concentration LCLo

Lethal Dose 50% LD50

OEL Occupational Exposure Limit PEL Permissible Exposure Limit

Safety Data Sheet SDS

Short-Term Exposure Limit STEL

TCLo Lowest published toxic concentration

TWA Time Weighted Average VOC Volatile Organic Content

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs

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L7L 5R6 V4N 4E7

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