

## MATERIAL SAFETY DATA SHEET CONTACT CLEANER AND LUBRICANT 325G

### SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT IDENTIFIER/TRADE NAME: .....CLEANER & LUBRICANT  
PRODUCT CODE/INTERNAL IDENTIFICATION .....CH100  
PRODUCT USE/DESCRIPTION:.....Electric contacts lubricant and cleaner  
PRODUCT CHEMICAL NAME:.....N/Ap  
CHEMICAL FAMILY:.....N/Ap  
MSDS PREPARATION/REVIEW DATE:.....January 27, 2015  
SUPPLIER IDENTIFIER:.....DEVANCO CANADA  
19192 HAY ROAD, UNIT Q,  
SUMMERSTOWN, ON K0C 2E0  
TOLL FREE: 855-931-3334  
WWW.DEVANCOCANADA.COM  
WHMIS CLASSIFICATION: .....A – Compressed gas  
B5 – Flammable aerosol  
D2B – Toxic material with other toxic effects

### SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS #	% (weight)	LD <sub>50</sub> (route, specie)	LC <sub>50</sub> (specie)
Ethanol	64-17-5	10-30	7060 mg/kg (oral, rat)	39 g/m <sup>3</sup> 4 hours (mouse)
Isopropanol	67-63-0	5-10	5045 mg/kg (oral, rat)	17000 ppm 4 hours (rat)
			12800 mg/kg (dermal, rabbit)	
Naphtha (Petroleum), light alkylate (C7-C10)	64741-66-8	10-30	N/Av	N/Av
Petroleum distillates, hydrotreated light (C4-C11)	64742-49-0	30-60	N/Av	N/Av
Carbon dioxide	124-38-9	1-5	N/Av	N/Av
Silicone	N/Av	1-5	N/Av	N/Av

### SECTION 3 - HAZARDS IDENTIFICATION

#### Emergency Overview

**EXTREMELY FLAMMABLE AEROSOL.** Vapours may catch fire. Content under pressure. Prolonged or excessive inhalation may cause mild central nervous system depression and have neurological effects. May cause headache, nausea, dizziness, vomiting and incoordination. Prolonged or excessive ingestion may cause aspiration of liquid into the lungs and cause chemical pneumonitis or even death. **IRRITANT.** Causes moderate to severe eye irritations. May cause slight skin irritations.

**POTENTIAL HEALTH EFFECTS** (for more details, refer to Section 11)

**Primary entry route(s):** Skin, eye, ingestion and inhalation.

**Effects of short-term (acute) and long-term (chronic) exposure:**

#### **Inhalation:**

Prolonged or excessive inhalation may cause mild central nervous system depression and have neurological effects. May cause headache, nausea, dizziness, vomiting and incoordination.

#### **Skin:**

May cause slight skin irritations. Prolonged or repeated exposure may cause dermatitis (dry skin).

#### **Eye:**

Causes moderate to severe eye irritations.

#### **Ingestion:**

Prolonged or excessive ingestion may cause aspiration of liquid into the lungs and cause chemical pneumonitis or even death.

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### SECTION 4 - FIRST AID MEASURES

**Inhalation:**

Remove source of contamination or have victim move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention immediately.

**Skin contact:**

Flush contaminated area with lukewarm, gently running water for at least 20 minutes or until the chemical is removed. Under running water, remove contaminated clothing. If irritation persists, obtain medical advice. Completely decontaminate clothing before reuse or discard.

**Eye contact:**

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, or until the chemical is removed, while holding the eyelid(s) open. Obtain medical attention immediately.

**Ingestion:**

NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink two glasses of water. Obtain medical attention immediately.

### SECTION 5 - FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:** EXTREMELY FLAMMABLE AEROSOL according to flame projection (>45 cm) and a flashback. Does burn under normal handling conditions.

**Flash point (Method):** > -18°C

**Lower flammable limit (% by volume):** 0.6

**Upper flammable limit (% by volume):** 19

**Sensitivity to mechanical impact:** Aerosols may explode or become projectiles after a mechanical impact.

**Sensitivity to static discharge:** N/Av

**Auto-ignition temperature:** 257-422°C

**Suitable extinguishing media:** Carbon dioxide, dry chemical powder and alcohol foam.

**Special fire-fighting procedures/equipment:**

During a fire, irritating/toxic smoke and fumes may be generated. Vapours can accumulate in confined spaces, resulting in a toxicity and flammability hazard. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from toxic products produced during the combustion. Closed containers may explode with the pressure building from the heat. Use water to cool fire exposed containers and prevent this situation.

**Hazardous combustion products:**

Carbon monoxide, carbon dioxide and other irritant gases, which may include toxic constituents.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Remove all ignition sources. Remove or isolate flammable and combustible materials. Wear adequate personal protective equipment (See Section 8). Ventilate area.

**Spill response/Cleanup:**

Stop the flow if it can be done safely. Keep materials which can burn away from spilled material. Prevent material from entering waterways, sewers or confined spaces. Put material in suitable, covered, labelled containers.

**Environmental precautions:**

Confine spill, preventing it from entering sewer lines or waterways. Dispose of as per local, state and federal regulations.

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### SECTION 7 - HANDLING AND STORAGE

#### Safe handling procedures:

Before handling, it is very important that engineering controls are operating and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Do not use near welding operations, flames or hot surfaces. Ensure proper ventilation after sealed area has been treated. Inspect containers for leaks before handling. Label containers appropriately. Keep containers closed when not in use. Empty containers are always dangerous. Assume that empty containers contain residues which are hazardous. Do not use with incompatible materials.

#### Storage requirements:

Store in a cool, well-ventilated area, away from heat and ignition sources. Keep storage area clear of ignition sources. Store away from incompatible materials. Inspect all incoming containers to make sure they are properly labelled and not damaged. Store in suitable, labelled containers. Keep containers tightly closed. Empty containers are always dangerous. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Engineering controls:

None required under normal handling conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits.

#### Respiratory Protection:

None required under normal handling conditions. Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirator if the exposure limits are unknown.

#### Protective Clothing/Equipment:

Wear chemically protective gloves (impervious), and if necessary boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective chemical safety goggles or in a splash environment in combination with a face shield. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Separate contaminated work clothes from street clothes. Launder before reuse.

#### Comments:

Avoid contact with skin and eyes. Avoid breathing vapours/dusts. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical state, colour and odour:** Aerosol (Clear liquid) with an alcohol odour.

**Odour threshold:** N/Av

**pH :** N/Av

**Boiling point:** 64-116 °C

**Melting/freezing point:** N/Av

**Vapour pressure:** 50-70 psig @ 20°C

**Solubility in water:** Miscible

**Coefficient of oil/water distribution:** N/Av

**Specific gravity or density (water = 1, at 4 °C):** 0.70-0.74

**Vapour density:** Heavier than air

**Evaporation rate:** N/Av

**% volatile by volume:** N/Av

### SECTION 10 - REACTIVITY AND STABILITY DATA

**Stability and reactivity:** Stable at room temperature, in normal handling and storage conditions.

**Polymerisation:** Hazardous polymerisation will not occur.

#### Conditions to avoid:

Avoid STRONG OXIDIZING AGENTS. Keep away from static discharge, sparks, open flames, heat and other ignition sources.

#### Materials to avoid:

Avoid STRONG OXIDIZING AGENTS.

**Hazardous decomposition products:** None.

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### SECTION 11 - TOXICOLOGICAL INFORMATION

**Exposure limits:** N/Av for the product.

Ingredient	OSHA PEL		ACGIH TLV		Other exposure limits
	TWA	STEL	TWA	STEL	
Ethanol	1000 ppm	N/Av	1000 ppm	N/Av	N/Av
Isopropanol	400 ppm	N/Av	200 ppm	400 ppm	N/Av
Naphtha (Petroleum), light alkylate (C7-C10)	N/Av	N/Av	N/Av	N/Av	N/Av
Petroleum distillates, hydrotreated light (C4-C11)	N/Av	N/Av	N/Av	N/Av	N/Av
Carbon dioxide	5000 ppm	N/Av	5000 ppm	30000 ppm	N/Av
Silicone	N/Av	N/Av	N/Av	N/Av	N/Av

**For more details, refer to Section 3.**

**Carcinogenicity:**

No ingredient listed by IARC, ACGIH, NTP or OSHA as a carcinogen.

**Teratogenicity, mutagenicity, other reproductive effects:** N/Av

**Skin sensitization:** N/Av

**Respiratory tract sensitization:** N/Av

**Synergistic materials:** N/Av

### SECTION 12 - ECOLOGICAL INFORMATION

**Environmental effects:** N/Av

**Important environmental characteristics:** N/Av

**Aquatic toxicity:** N/Av

### SECTION 13 - WASTE DISPOSAL

**Handling and storage conditions for disposal:**

Store material for disposal as indicated in Handling and Storage (Section 7).

**Methods of disposal:**

Review federal, provincial and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

### SECTION 14 - TRANSPORTATION INFORMATION

**Transportation of Dangerous Goods (TDG) :**

TDG Classification: AEROSOL; Class 2.1; UN1950

Special case: Product can also be shipped as a LIMITED QUANTITY/CONSUMER COMMODITY according to TDG Section 1.17.

### SECTION 15 - REGULATORY INFORMATION

**In Canada**

**WHMIS information:**

Product is regulated according to the Controlled Product Regulations (CPR) in Canada.

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

**Hazardous Materials Identification System (HMIS):**

HEALTH: 2\*Chronic FLAMMABILITY: 4 REACTIVITY: 0 PERSONAL PROTECTION: Section 8.

HAZARD: 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe

**National Fire Protection Association (NFPA):**

HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0 PERSONAL PROTECTION: Section 8.

HAZARD: 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe

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## CONTACT CLEANER AND LUBRICANT 325G

SECTION 16 - OTHER INFORMATION
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**References:**

1. Material Safety Data Sheets from manufacturer/supplier.
2. CSST, Répertoire Toxicologique, Les produits.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015.

**Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CFR	Code of Federal Regulations (Transportation in U.S.A.)
DOT	Department of Transport (U.S.A.)
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS