

MATERIAL SAFETY DATA SHEET**SECTION 1 — PRODUCT IDENTIFICATION****Product identifier:** 0613- Diamond Clean**Product use:** Industrial Cleaner**Product Code Number:** 48464**MSDS Number:** 0613**WHMIS Classification:** B2, D2B**Supplier name and address:**Glen Martin
16- 106 Saunders Road
Barrie, ON L4N 9A8**Manufacturer's name and address:**

Refer to Supplier

Emergency Telephone #: CANUTEC (613) 996-6666**SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS**

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>LD₅₀ mg/kg oral/rat</u>	<u>LD₅₀ mg/kg skin/rabbit</u>	<u>LC₅₀ ppm inh/rat</u>
Alcohols,C9-11,Ethoxylated	68439-46-3	1.0-5.0	2,000	n/av	n/av
Diethylene glycol monobutyl ether	112-34-5	3.0-7.0	7,292	2,764	n/av

SECTION 3 — HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Routes of entry: Ingestion and eye contact.**Signs and symptoms of short-term (acute) exposure:**

Inhalation: Moderately irritating to the eyes, nose, throat and lungs. High concentration of vapours will cause irritation, or if inhaled as a mist. Excessive exposure may cause irritation to upper respiratory tract. (Nose and Throat). Ethylene Glycol butyl ether: In humans, symptoms may include headache. In animal, effects have been reported to the following organs: Blood (hemolysis), secondary effects to the kidney and liver. Human red blood cells have shown to be significantly less sensitive to hemolysis than those of rabbits or rats.

Skin contact: May cause skin irritation.*Eye contact:* Contact can result in irritation.*Ingestion:* May be harmful if swallowed, causing nausea, vomiting and diarrhea, possible central nervous system depression, with headache, giddiness and loss of coordination.**Effects of long-term (chronic) exposure:** Prolonged skin contact may cause dermatitis. See Section 11.**Other important hazards:** None reported.**SECTION 4 — FIRST AID MEASURES****Inhalation:** Remove victim to fresh air. If breathing difficulties persist, call a physician.**Skin contact:** Rinse with water. Wash with soap and water. Contact a physician if irritation develops.**Eye contact:** Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get immediate medical attention.**Ingestion:** Do not induce vomiting. Call physician immediately. If vomiting occurs naturally, have victim lean forward to prevent aspiration of material into lungs.**SECTION 5 — FIRE FIGHTING MEASURES****Fire hazards/conditions of flammability:** Not Flammable.**Flash point (Method):** Not determined

Lower flammable limit (% by volume): Not available

Upper flammable limit (% by volume): Not available.

Explosion data: *Sensitivity to mechanical impact:* Not sensitive. *Sensitivity to static discharge:* May be sensitive if heated to high temperatures.

Oxidizing properties: None.

Auto-ignition temperature: Not available

Suitable extinguishing media: Water, dry chemicals and carbon dioxide can be used on fires in which this product is involved.

Special fire-fighting procedures/equipment: Fire-fighters should wear chemical-resistant clothing (for example, chemical splash suit) and positive pressure self-contained breathing apparatus, approved by NIOSH/MSHA.

Hazardous combustion products: Combustion may release toxic or corrosive gases, such as oxides of carbon, sodium, sulphur or nitrogen.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment as required by workplace standards.

Environmental precautions: Prevent spills from entering waterways.

Spill response/Cleanup: Recover and reuse as much of the product as possible.

Prohibited materials: None known.

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: Avoid contact with eyes.

Storage requirements: Store in a cool, dry area. Keep away from heat, incompatible materials.

Special packaging materials: Not prescribed.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: General ventilation should be sufficient.

Respiratory protection: Normally not required. If high concentrations of spray or mist generated, use a NIOSH/MSHA approved respirator equipped with organic vapour cartridges.

Protective gloves: Rubber, nitrile rubber, butyl rubber or Neoprene gloves recommended.

Eye protection: Safety glasses recommended when handling this product.

Other protective equipment: Eyewash station and safety shower.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, colour and odor: Soft brown liquid with almond odour.

Door threshold: Not available

Boiling point: Not available

Vapour pressure: Not available

Coefficient of oil/water distribution: Not available

Specific gravity or relative density (water = 1): 1.020

Volatile organic compounds (VOC's): Not available

Percent Volatile by Weight: Greater than 80 %

pH: 11.5-12.5

Melting/freezing point: Not available

Solubility in water: Not available

Vapour density: Not available

Evaporation rate: Not available

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Normally stable.

Conditions to avoid: Keep containers closed, when not in use.

Materials to avoid: Strong oxidizers, acids and alkalis

Hazardous decomposition products: Oxides of carbon, sodium, sulphur and nitrogen.

SECTION 11 — TOXICOLOGICAL INFORMATION

LD₅₀: Not established for this product. See Section 2 for values for ingredients.

LC₅₀: Not established for this product. See Section 2 for values for ingredients.

Exposure limits: ACGIH-TLV - Not established.

Carcinogenicity: None of the ingredients is listed by IARC, ACGIH, NTP, and OSHA as carcinogenic.

Teratogenicity, mutagenicity, other reproductive effects: Ethylene Glycol butyl ether: In long term animal studies, small but significant increases in tumors were observed in mice but not rats. The effects are not believed to be relevant to humans, If the material is handled in accordance to proper industrial handling, exposures should not pose a carcinogenic risk to man. Has been toxic to the fetus in lab animals at doses toxic to the mother. In animal studies, effects on reproduction have only been seen at doses that produced significant toxicity to the parent animal.

Sensitization to material: Not reported.

Conditions aggravated by exposure: Skin conditions such as dermatitis.

Synergistic materials: None known.

SECTION 12 — ECOLOGICAL INFORMATION

Environmental effects: Not known.

SECTION 13 — WASTE DISPOSAL

Handling for disposal: Reuse if possible. Keep in closed, labelled containers, away from heat.

Methods of disposal: Follow local, provincial, state and federal regulations.

SECTION 14 — TRANSPORTATION INFORMATION

Shipping description: Not regulated TDG

Please note: This shipping description is of a general nature only. It does not consider package sizes, modes of transport and other specific circumstances. Appropriate regulations should be referenced, and handling for transportation of dangerous goods/hazardous materials should be performed by trained personnel only.

SECTION 15 — REGULATORY INFORMATION

WHMIS information: B2, D2B

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.

SECTION 16 — OTHER INFORMATION

Prepared by: Armstrong Manufacturing Inc.

Telephone number: (905) 566-1395

Preparation date: 19 August 2014

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2001.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. CHEMINFO database.
4. Material Safety Data Sheets from raw materials suppliers.
5. N. Irving Sax. Dangerous Properties of Industrial Materials, Seventh Edition.

n/ap Not applicable

n/av Not available

gm gram