

MATERIAL SAFETY DATA SHEET**SECTION 1 — PRODUCT IDENTIFICATION****Product identifier:** 0011- PROSERIES CRYSTAL CLEAR**Product use:** Glass Cleaner RTU**WHMIS Classification:** D1B, D2B**Product Code Number:** 40503, 40504, 40505, 40516**MSDS Number:** 0011**Supplier name and address:**

Armstrong Manufacturing Inc.

2485 Haines Road

Mississauga, Ontario L4Y 1Y7

(905) 566-1395

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</u> <u>mg/kg</u> <u>oral/rat</u>	<u>LD₅₀</u> <u>mg/kg</u> <u>skin/rabbit</u>	<u>LC₅₀</u> <u>ppm</u> <u>inh/rat</u>
Ethylene glycol butyl ether	111-76-1	1-5	470	220	700/7H
Isopropyl alcohol	67-63-0	1-5	4720	12900	1200/8H

SECTION 3 — HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Routes of entry: Ingestion and eye contact.**Signs and symptoms of short-term (acute) exposure:***Inhalation:* May be harmful if inhaled.*Skin contact:* May cause skin irritation.*Eye contact:* Contact can result in irritation.*Ingestion:* May be harmful if swallowed.**Effects of long-term (chronic) exposure:** See Section 11. **Other important hazards:** None reported.**SECTION 4 — FIRST AID MEASURES****Inhalation:** Remove victim to fresh air.**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.**Ingestion:** Call physician immediately.**SECTION 5 — FIRE FIGHTING MEASURES****Fire hazards/conditions of flammability:** Will not burn.**Flash point (Method):** n/ap**Lower flammable limit (% by volume):** n/av**Upper flammable limit (% by volume):** n/av**Explosion data:** *Sensitivity to mechanical impact:* Not sensitive. *Sensitivity to static discharge:* Not sensitive.**Oxidizing properties:** None.**Auto-ignition temperature:** n/av.**Suitable extinguishing media:** Any media appropriate for surrounding materials.**Special fire-fighting procedures/equipment:** n/av**Hazardous combustion products:** Oxides of carbon.

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 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.

Protective gloves: Recommended.

Eye protection: Safety glasses.

Other protective equipment: As required by workplace standards.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, color and odor: Bright, clear blue liquid. Autumn breeze scent.

Odor threshold: n/av

pH: 10.0-11.0

Boiling point: n/av

Melting/freezing point: n/av

Vapour pressure: n/av

Solubility in water: Very soluble.

Coefficient of oil/water distribution: n/av

Specific gravity or relative density (water = 1): 0.99-1.00

Vapour density: n/ap

Solids: 2.90-3.00

Volatile organic compounds (VOC's): n/av

Evaporation rate: n/ap

Percent Volatile by Weight: n/av

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Normally stable.

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

Materials to avoid: n/ap

Hazardous decomposition products: Oxides of carbon.

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 carcinogen.

Teratogenicity, mutagenicity, other reproductive effects: Contains very small amounts of Ethanol. Ethanol may cause reproductive effects such as birth defects, developmental problems and may damage the reproductive system. Repeated high exposure may damage the liver, nervous system and blood cells.

Sensitization to material: Not reported.

Conditions aggravated by exposure: Skin conditions.

Synergistic materials: None known.

SECTION 12 — ECOLOGICAL INFORMATION

Environmental effects: Not known.

SECTION 13 — WASTE DISPOSAL

Handling for disposal: Reuse if possible.

Methods of disposal: Use only licensed waste disposal services. Follow local, provincial, state and federal regulations.

SECTION 14 — TRANSPORTATION INFORMATION

Shipping description: TDG - Not regulated.

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: D1B, 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: September 01, 2004

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

DA/dj