

**MATERIAL SAFETY DATA SHEET****SECTION 1 — PRODUCT IDENTIFICATION**

**Product identifier:** 0103 – Grout Clean  
**Product use:** Bathroom Grout Cleaner.  
**Product Code Number:** 42524, 42532  
**MSDS Number:** 0103

**WHMIS Classification:** E, D1A

**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**

<b><u>Ingredients</u></b>	<b><u>CAS #</u></b>	<b><u>% (weight)</u></b>	<b><u>LD<sub>50</sub></u></b> <b><u>mg/kg</u></b> <b><u>oral/rabbit</u></b>	<b><u>LD<sub>50</sub></u></b> <b><u>mg/kg</u></b> <b><u>skin/rabbit</u></b>	<b><u>LC<sub>50</sub></u></b> <b><u>ppm</u></b> <b><u>inh/mouse</u></b>
Phosphoric Acid	7664-38-2	3-7	1530	2740	n/av
Sulphuric Acid	7664-93-9	3-7	2140	n/av	320 mg/m <sup>3</sup> /2H
Alcohol Ethoxylate	68991-48-0	1-5	2000	n/av	n/av
Dodecylbenzene	27176-87-0	1-5	950	n/av	n/av
Sulphonic acid					

**SECTION 3 — HAZARDS IDENTIFICATION**

\*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Routes of entry:** Inhalation, ingestion, skin and eye contact.

**Emergency Overview:** Danger! Extremely corrosive! Causes severe burns and eye damage.

**Signs and symptoms of short-term (acute) exposure:**

*Inhalation:* Irritating and/or corrosive to the eyes, nose, throat and lungs.

*Skin contact:* Dangerous in case of skin contact. Causes tissue damage.

*Eye contact:* Contact can result in corneal damage or blindness. Immediate pain, severe burns.

*Ingestion:* Harmful or fatal if swallowed. May burn mouth, throat and stomach.

**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. If symptoms persist, call a physician.

**Skin contact:** Flush skin with plenty of water, for at least 15 minutes, while removing contaminated clothing. Call physician immediately. Wash contaminated clothing before reuse.

**Eye contact:** IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open.

**Ingestion:** Immediately call physician. DO NOT induce vomiting. Give several glasses of water. Never give anything by mouth if victim is unconscious or convulsing.

**SECTION 5 — FIRE FIGHTING MEASURES**

**Fire hazards/conditions of flammability:** Not flammable.

**Flash point (Method):** Not applicable. °C (°F)

**Lower flammable limit (% by volume):** n/ap

**Upper flammable limit (% by volume):** n/ap

**Explosion data:** *Sensitivity to mechanical impact:* Not sensitive. *Sensitivity to static discharge:* Not sensitive.

**Oxidizing properties:** None.

**Auto-ignition temperature:** None.

**Suitable extinguishing media:** As appropriate for burning of surrounding products.

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

**Hazardous combustion products:** n/ap

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear adequate personal protective equipment.

**Environmental precautions:** No special precautions required.

**Spill response/Cleanup:** Recover and reuse as much of the product as possible. Restrict access to area until completion of clean up. Ensure trained personnel conduct clean up. Do not touch spilled material.

**Prohibited materials:** None known.

#### SECTION 7 — HANDLING AND STORAGE

**Safe handling procedures:** Product is corrosive. Avoid contact with skin, eyes and clothing. Wear proper protective equipment, including rubber gloves.

**Storage requirements:** Store in a cool, dry area. Keep away from incompatible materials, (see Sect. 10)

**Special packaging materials:** Plastic containers.

#### SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation and engineering controls:** Mechanic ventilation should be adequate.

**Respiratory protection:** Normally not required.

**Protective gloves:** Rubber.

**Eye protection:** Safety glasses, or chemical goggles.

**Other protective equipment:** As required by workplace standards.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Physical form, color and odor:** Cloudy opaque lemon yellow slightly viscous liquid. Lemon odour.

**Odor threshold:** n/av

**pH:** <1

**Boiling point:** n/av

**Melting/freezing point:** n/av

**Vapour pressure:** n/av

**Solubility in water:** Very soluble.

**Coefficient of oil/water distribution:** Essentially zero.

**Specific gravity or relative density (water = 1):** 1.07

**Vapour density:** n/av

**Volatile organic compounds (VOC's):** n/ap

**Evaporation rate:** n/ap      **Percent Volatile by Weight:** n/av

#### SECTION 10 — REACTIVITY AND STABILITY DATA

**Stability and reactivity:** Normally stable.

**Conditions to avoid:** Unintentional contact with water and moisture. Keep containers tightly closed, when not in use.

**Materials to avoid:** Strong bases, reactive metals. When diluting DO NOT add water to the acid. Add acid to water.

**Hazardous decomposition products:** Toxic acid fumes.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

**LD<sub>50</sub>:** Not established for this product. See Section 2 for values for ingredients.

**LC<sub>50</sub>:** Not established for this product. See Section 2 for values for ingredients.

**Exposure limits:** ACGIH-TLV 1 mg/M<sup>3</sup> for Phosphoric Acid and Sulphuric Acid.

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

**Teratogenicity, mutagenicity, other reproductive effects:** There is no human or animal information available on teratogenicity, reproductive toxicity, or mutagenicity.

**Sensitization to material:** Not reported.

**Conditions aggravated by exposure:** Skin conditions.

**Synergistic materials:** None known.

## SECTION 12 — ECOLOGICAL INFORMATION

**Environmental effects:** Product is corrosive. Low pH (acidity) of material is harmful to aquatic life.

## SECTION 13 — WASTE DISPOSAL

**Handling for disposal:** Reuse if possible.

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

## SECTION 14 — TRANSPORTATION INFORMATION

**Shipping description:** TDG – Corrosive Liquids, Acidic, Inorganic, N.O.S., (Sulphuric acid, Phosphoric acid), Class 8, UN3264, P.G. II, Placard –8-Corrosive

**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:** E, D1A

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:** April 13, 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

MV/mt