

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

**Product identifier:** 0012 – STRONGARM DRAIN CLEAN      **WHMIS Classification:** D2A, E  
**Product use:** Drain cleaner & maintainer  
**Product Code Number:** 42333  
**MSDS Number:** 0012

**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>LD<sub>50</sub></u> <u>mg/kg</u> <u>oral/rabbit</u>	<u>LD<sub>50</sub></u> <u>mg/kg</u> <u>skin/rabbit</u>	<u>LC<sub>50</sub></u> <u>ppm</u> <u>inh/mouse</u>
Sulphuric acid	7664-93-9	60-100	2140	n/av	90 ppm/4H

**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:* Extremely 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:** Strong acid,

**Auto-ignition temperature:** None.

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

**Special fire-fighting procedures/equipment:** Container may burst in heat of fire. Contact with moisture may result in heating or ignition.

**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)

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

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

**Respiratory protection:** Normally not required.

**Protective gloves:** Butyl, nitrile rubber or natural rubber. Confirm with reputable supplier first.

**Eye protection:** Chemical goggles. And face shield.

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

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Physical form, color and odor:** Clear amber liquid, pungent odour.

**Odor threshold:** n/av

**pH:** <1

**Boiling point:** 327°C

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

**Vapour pressure:** 0.0018 mm Hg @20°C

**Solubility in water:** Very soluble.

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

**Specific gravity or relative density (water = 1):** 1.8

**Vapour density (Air=1):** 3.4

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

**Evaporation rate:** n/av      **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:** Organic materials, metals and combustible materials. When diluting DO NOT add water to the acid. Add acid to water.

**Hazardous decomposition products:** Oxides of sulphur.

#### 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> (TWA)

**Carcinogenicity:** Sulphuric acid 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:** Use only licensed waste disposal services. Follow local, provincial, state and federal regulations.

#### SECTION 14 — TRANSPORTATION INFORMATION

**Shipping description:** TDG – Sulphuric acid, Class 8, UN1830 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:** D2A, E

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:** January 31, 2008

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

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