

## Section I - Product Identification and Use

Product name: CLEEN DRAIN DRAIN OPENER (LIQUID) Version: 1.5  
 Chemical family: SULFURIC ACID Product use: DRAIN OPENER  
 Supplier: ARMSTRONG MFG CO Telephone #: (905)-275-7270  
 Address: 2485 HAINES RD Emergency Telephone #: (613)-996-6666  
 MISSISSAUGA, ONT L4Y 1Y7 Inventory number: 32311/333

## Section II - Hazardous Ingredients

Ingredients	CAS #	%	LC50 ppm (Rat, Inhal)	LD50 mg/kg (Rat, oral)
SULFURIC ACID	7664-93-9	60-100	362	2140

## Section III - Physical Data

Boiling pt: 290 (Deg C) S.G.: 1.77 Vapour press. (mm Hg): 0.001  
 Evaporate Rate: DNA Vapour density (Air=1): N/Av  
 Solubility in water: COMPLETE Volatiles, %: <5% Freezing point: <0 Deg C  
 Odour threshold: N/Av ppm pH: <1 Coefficient of water/oil distribution: N/Av  
 Appearance and odour: CLEAR TO AMBER HEAVY LIQUID. MAY HAVE A SHARP SULFUR DIOXIDE ODOUR

## Section IV - Fire and Explosion Data

Flash point (Method): DNA ( ) LEL: NONE UEL: NONE  
 Extinguishing media: DRY CHEMICAL, CARBON DIOXIDE, WATER

Auto-ignition temperature: DNA

Special fire fighting instructions:

USE WATER WITH CARE-WATER APPLIED DIRECTLY WILL CAUSE EVOLUTION OF HEAT AND CAUSE SPATTERING

Unusual fire and explosion hazards:

CAPABLE OF IGNITING FINELY DIVIDED COMBUSTIBLES ON CONTACT. REACTS VIOLENTLY WITH WATER AND ORGANIC MATERIALS EVOLVING HEAT

## Section V - Reactivity Data

Stability: STABLE Incompatibility: ORGANIC MATERIALS, METALS

Hazardous decomposition products:

SULFUR DIOXIDE, SULFUR TRIOXIDE, SULFURIC ACID VAPOURS

Polymerization: WILL NOT OCCUR

## Section VI - Toxicological Properties

Routes of entry Exposure limit: 1 (mg/m3) LD50: N/Av LC50: N/A  
 Skin Contact: X Skin Absorption: Eye Contact: X Inhalation: Ingestion: X  
 Effects of Acute Exposure to Product:  
 SEVERE SKIN, EYE AND RESPIRATORY IRRITANT...

Effects of Chronic Exposure to Product:

PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE DRYING, DEFATTING AND DERMATITIS.

Section VI - Toxicological Properties Cont'd			
Exposure Limits:	Irritancy of Product:	Sensitization of Product:	Carcinogenicity:
N/Av	Hazardous	Non-Hazardous	Non-Hazardous
Teratogenicity:	Reproductive Toxicity:	Synergistic Products:	Mutagenicity:
N/Av	N/Av	N/Av	N/Av

## Section VII - Preventive Measures

Spill, leak or release:

SMALL QUANTITIES MAY BE FLUSHED WITH LARGE AMOUNTS OF WATER. IN CASE OF LARGER AMOUNTS, CONTAIN LIQUID. USE LIME OR SODA ASH TO NEUTRALIZE

Waste disposal:

SEE ABOVE PROCEDURE OR CONTACT LOCAL ENVIRONMENTAL AUTHORITIES

Respiratory protection:

NOT REQUIRED UNDER NORMAL USE CONDITIONS

Ventilation:

GENERAL VENTILATION

Protective gloves:

ACID-RESISTANT SUCH AS NEOPRENE OR RUBBER

Eye protection:

APPROVED SAFETY GLASSES OR GOGGLES

Other protective equipment:

EXPOSURE TO BARE SKIN SHOULD BE MINIMIZED

Storage and handling conditions:

DO NOT STORE WITH BASES, CHLORINE COMPOUNDS, OR OXIDIZERS

Proper Shipping name:

SULFURIC ACID

CLASS 8 (9.2), UN 1830, PKG. GR. II

## Section VIII - First Aid

Inhalation:

REMOVE VICTIM TO FRESH AIR. CALL PHYSICIAN AND/OR TRANSPORT TO A MEDICAL FACILITY

Skin:

FLUSH AFFECTED AREA IMMEDIATELY WITH TEPID WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. CONTACT PHYSICIAN IF IRRITATION PERSISTS

Eyes:

FLUSH IMMEDIATELY FOR AT LEAST 15 MINUTES WITH TEPID WATER WHILE REMOVING CONTACT LENSES. CONTACT PHYSICIAN IMMEDIATELY

Ingestion:

DO NOT INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER OR MILK IF IMMEDIATELY AVAILABLE AND TRANSPORT TO A MEDICAL FACILITY

## Section IX - Preparation Date of MSDS

Prepared by: TECHNICAL DIRECTOR

Telephone #: (905) 275-7270

Preparation date: 31/08/97 (D/M/Y)

N/Av = NOT AVAILABLE

DNA = DOES NOT APPLY

FOR UPDATES CONTACT: