



# MATERIAL SAFETY DATA SHEET

## Agriland Drain Cleaner

Concentrated, acidic, drain cleaner

### COMPANY DETAILS

Distributor's Name:	SSK
Address:	Industry Road Mossel Bay 6500
Tel:	(044) 601 1200
Fax:	(044) 695 1243
Emergency Phone Number:	(044) 601 1200

### 1. PRODUCT NAME:

Trade Name:	Agriland Drain cleaner
Product Code:	TR-CDC
Synonyms:	Acid drain cleaner

### 2. COMPOSITION:

Hazardous Components:	Sulphuric Acid 98%	CAS# 7664-93-9
Hazardous Components in concentrate form:	Low pH therefore skin and eye irritant	
Hazardous Components in diluted form:	If used in accordance to manufacturer's instructions it's not hazardous	
EEC Classification:	N/A	
R Phrases:	R8, R35	

### 3. HAZARDS IDENTIFICATION:

- Corrosive
- Poisonous if inhaled or swallowed
- skin contact poisonous
- contact could cause burns to skin and eyes
- Fire could produce irritating or poisonous gases
- Runoff from fire-control or dilution water could cause pollution
- Contact with skin or eyes will cause burning depending on concentration
- Breathing high concentrations may cause coughing or sneezing
- Ingestion: serious burns of mouth

Main Hazard:	Corrosive	
Flammability:	Nil	
Chemical Hazard:	Sulphuric	
Biological Hazard:	Corrosive	
Reproduction Hazard:	N/A	
Eye effect:	Eyes:	Corrosive
Health effect:	Skin:	Corrosive
Health effect:	Ingestion:	Corrosive
Health effect:	Inhalation:	Irritant
Carcinogenicity:	Not Known	
Mutgenicity:	Not Known	
Neurotoxicity:	Not Known	

### 4. FIRST AID MEASURES:

Product on the skin:	Wash off with water, remove clothing. Shower thoroughly. IMMEDIATELY remove contaminated clothing and drench affected area with running water. Seek medical attention.
Product in the eyes:	Wash eyes with water for 15 minutes. Hold eyelids open while washing. Seek medical help.
Product Ingested:	DO NOT INDUCE VOMITING. Rinse mouth. Immediately give plenty of water to drink. PROMPT MEDICAL ATTENTION IS VITAL.
Product Inhaled:	Remove from contaminated area. Give oxygen. CPR if indicated. Move to fresh air. Seek medical attention.

NOTE: ALWAYS WEAR PROTECTIVE CLOTHING.

### 5. FIRE FIGHTING MEASURES:

Some of these materials may react violently with water.

Small fires: Dry chemical, CO2, Halon.

Large fires: Water spray, fog or standard foam is recommended.

Move container from fire area if you can do it without risk. Cool containers that are exposed to flames with water from the inside until well after the fire is out. Stay away from ends of tanks.

Keep unnecessary people away: isolate hazard area and deny entry. Stay upwind, keep out of low areas.

Positive-pressure self-contained breathing apparatus (SCBA) and chemical protective clothing that is specifically recommended by the shipper or manufacturer may be worn.

## 6. ACCIDENTAL RELEASE MEASURES:

All information is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.

Full protective clothing including breathing apparatus  
Dilute (substance may be washed to drain with a lot of water)

### PRECAUTIONS:

Restrict access to area  
Provide adequate protective equipment and ventilation  
Remove sources of heat and flame  
Notify occupational and environmental authorities

**SPILL OR LEAK:** Do not touch spilled material. Stop leak if you can do it without risk.  
Use water spray to reduce vapours.

**SMALL SPILLS:** Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

**LARGE SPILLS:** Dike liquid spill for later disposal

### ALWAYS WEAR PROTECTIVE CLOTHING AND APPARATUS.

## 7. HANDLING AND STORAGE:

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get into eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not allow contact with water. Use only in a chemical fume hood. Discard contaminated shoes. Keep from contact with moist air and steam.

**Storage:** Do not store near combustible materials. Keep container closed when not in use. Store in a cool, dry, well ventilated area away from incompatible substances. Keep away from water. Corrosives area. Do not store near alkaline substances. Store protected from moisture.

Store in mild steel tanks or high density plastic container. Separation of at least 3M from the following classes is recommended:

Flammable liquids  
Flammable Solids  
Spontaneously Combustibles  
Poison

Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended:

Flammable Gases  
Dangerous when wet  
Oxidizing Agents  
Organic Peroxides

Storage in the same room or space is prohibited with the following classes:

The rooms or spaces should be at least 10M apart  
Explosives  
Radioactive

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:**

Occupational Exposure Limits:	T W A OEL-RL		SHORT TERM OEL-RL	
	PPMa)	MG/M3b	PPMa)	MG/M3b
	-	1	-	3

**Controls:** The control measure appropriate for a particular worksite on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash fountain ready available in the immediate work area.

**Personal Protection:** If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection. Have appropriate equipment available for use in emergencies.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Colourless to cloudy, oily liquid. Fume has a sharp, irritating odour.	
<b>Odour:</b>	Irritating odour	
<b>Boiling point:</b>	100% H <sub>2</sub> SO <sub>4</sub> :	270 °C
	98% H <sub>2</sub> SO <sub>4</sub> :	330°C
<b>Freezing Point:</b>	100%:	10°C
	98%:	3°C
<b>Relative Density:</b>	98% H <sub>2</sub> SO <sub>4</sub> :	1.84 (water: 1)

Completely soluble in water.

Concentrated acid reacts with water and releases considerable heat.

**10. STABILITY AND REACTIVE**

<b>Condition to avoid:</b>	Risk of violent reaction with water. Reacts with moist metals when diluted, releasing Hydrogen gas.
<b>Incompatible Materials:</b>	Reacts with alkalis generating heat. Diluted acid reacts with moist metals and generates highly flammable hydrogen.
<b>Other:</b>	Strong acid generates sulphur oxide.

## 11. TOXICOLOGICAL INFORMATION

Short term health effects:	Unknown
Long term health effects:	Unknown
Symptoms:	Eye, Nose, Throat irritant, Pulmonary oedema, Emphysema, Conj, Stomatitis, Dent erosion, Trachbronch, Skin, Eye, Burns, Derm. Extremely irritating, corrosive and toxic to tissue – Workers exposed to low concentrations of vapour gradually lose sensitivity to irritating action – Inhalation of concentrated vapours can cause rapid unconsciousness with serious damage to lung tissue.
Potential Health Effects:	<p>Eyes – Causes severe eye burns. May cause irreversible eye injury. May cause conjunctivitis. May cause permanent corneal opacification.</p> <p>Skin – Causes skin burns. Continued contact can cause tissue necrosis. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.</p> <p>Ingestion – May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause systemic toxicity with acidosis.</p> <p>Inhalation – May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing wheezing, shortness of breath and pulmonary oedema. Causes chemical burns in respiratory tract. Inhalation may be fatal as a result of spasm. Inhalation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Causes corrosive action in the mucous membranes.</p> <p>Chronic - Prolonged or repeated inhalation may cause kidney and lung damage. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated inhalation may cause nose bleeds, nasal congestion, erosion to the teeth, perforation of the nasal septum, chest pain and bronchitis. Prolonged or repeated eye contact may cause conjunctivitis. May cause fetal effects. May cause cancer in humans. Effects may be delayed. Laboratory experiments have resulted in mutagenic effects. May cause ischemic heart lesions.</p>
Draize test, rabbit, eye:	250ug Severe;
Inhalation, mouse:	LC50 = 320 mg/m <sup>3</sup> /2H;
Inhalation rat:	LC50 = 510 mg/m <sup>3</sup> /2H;
Oral, rat:	LD50 = 2140 mg/kg;
ACGIH:	A2 – Suspected Human Carcinogen (contained in strong inorganic acid mists)
OSHA:	Select carcinogen

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Bluegill/Sunfish: 49mg/L; 48Hr; TLm (tap water @ 20C)  
Fish: Bluegill/Sunfish: 24.5 ppm; 48Hr TLm (fresh water)

## 13. DISPOSAL CONSIDERATIONS

Disposal method Product: We recommend that you contact the local authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal of packaging: Disposal in accordance with local legal provisions.  
Rinse away with plenty of water

## 14. TRANSPORT INFORMATION

UN No: 1830  
Hazchem Code: 2p  
ERG No.: 137  
EAC: 59  
IMDG-Shipping Name: Sulfuric acid  
IMDG Code: 8220  
IMDG-Packaging Group: II  
Marine Pollutant: Yes  
Class: Class: 8 Corrosive Group: II  
Subsidiary Risks: None

## 15. REGULATORY INFORMATION

EEC Hazard Classification: 8  
Risk Phases: R 35 Causes severe burns  
R 8 Contact with combustible material may cause fire  
Safety Phases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 30 Never add water to this product  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

National Legislation: N/A

## 16. OTHER INFORMATION

### Disclaimer

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