

## 1. IDENTIFICATION

### Product Identifier

**Product Name** ACID WASH 200 (AW 200)  
**Chemical Name** Acid cleaner

### Recommended use of the chemical and restrictions on use

**Recommended use** Oxidation and scale removal applications  
**Restrictions on use** For industrial use only

### Supplier details

West Penetone Inc.  
 11411-160 Street  
 Edmonton, AB,  
 T5M3T7  
 Tel: 780-454-3919

### Emergency Telephone Number

Canutec 1-(613)-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

## 2. HAZARDS IDENTIFICATION

### Classification

Corrosive to metals	Category 1
Acute toxicity, inhalation - vapors	Category 3
Skin corrosion/irritation	Category 1A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity – single exposure	Category 3
Specific target organ toxicity – repeated exposure	Category 2
Hazardous to the aquatic environment, acute hazard	Category 3

### Label Elements

#### DANGER

#### Hazard Statements

May be corrosive to metals  
 Toxic if inhaled  
 Causes severe skin burns and eye damage  
 May cause respiratory irritation  
 May cause damage to organs (bone, joint, skin) through prolonged or repeated exposure (inhalation, ingestion, skin)  
 Harmful to aquatic life



### Precautionary Statements - Prevention

Keep only in original packaging.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Specific treatment calcium gluconate gel. Wash contaminated clothing before reuse.  
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
 Get medical advice/attention if you feel unwell.  
 Absorb spillage to prevent material-damage.

#### **Precautionary Statements - Storage**

Store in corrosive resistant/container with a resistant liner. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
sulphuric acid	7664-93-9	7-13
alcohols, (C12-15 ln. saturated), ethoxylate	68131-39-5	1-5
hydrofluoric acid	7664-39-3	1-5

### **4. FIRST AID MEASURES**

#### **Ingestion**

Do not induce vomiting. Drink 1 or 2 glasses of water, milk, or milk of magnesia. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

#### **Skin contact**

Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If available, immerse exposed area in a solution of 0.13% iced aqueous "zephiran chloride" or directly apply 2.5% calcium gluconate gel.

#### **Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

#### **Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If available, apply one or two drops of 0.5% "pontocain hydrochloride solution" followed by further rinsing. Irrigate with 1% calcium gluconate in normal saline for 1 to 2 hours to prevent or lessen possible corneal damage.

#### **Most important symptoms and effects, both acute and delayed**

Causes irritation or burns to eyes, skin and mucous membranes. Symptoms include pain with local reddening, blistering, ulceration or discoloration of tissues. Delayed effects include hypocalcaemia, cardiac arrhythmias, hypomagnesaemia, and hyperkalemia.

#### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

Water jet.

#### **Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation of the area.

**Environmental Precautions**

Avoid discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

Contain, neutralize, and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following recovery of product, flush area with plenty of water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling** Avoid contact with skin, eyes, and clothing. Add product to water. Use adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place, above 0°C.

**Incompatible Materials** Strong or chlorinated alkali, amphoteric or light metals

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
sulphuric acid 7664-93-9	TWA: 0.2 mg/m <sup>3</sup> ceiling	TWA: 1 mg/m <sup>3</sup>	15mg/m <sup>3</sup>
hydrofluoric acid 7664-39-3	3 ppm - ceiling	TWA: 3 ppm ceiling STEL: 6 ppm – 15 min	30 ppm

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Splash proof goggles and face shield.

**Skin and body protection** Rubber or neoprene gloves, rubber apron and boots.

**Respiratory Protection** Respiratory protection if ventilation is inadequate or in case of vapor/aerosol release.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practices. Wash soiled clothing immediately. Eyewash and shower facilities should be available where this product is handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:**

Clear, red liquid

**ODOR:****VAPOR PRESSURE, mm Hg AT 20°C:**

Not available

**VAPOR DENSITY (Air = 1):**

Acidic	Not available
<b>ODOR THRESHOLD:</b> Not applicable	<b>RELATIVE DENSITY AT 20°C:</b> 1.170-1.180
<b>pH:</b> <1.0	<b>SOLUBILITY IN WATER:</b> Complete
<b>MELTING POINT / FREEZING POINT:</b> Approx. -15 °C	<b>PARTITION COEFFICIENT, N-OCTANOL/WATER:</b> Not available
<b>BOILING POINT/BOILING RANGE:</b> Approx. 100 °C	<b>AUTO-IGNITION TEMPERATURE:</b> Not available
<b>FLASH POINT:</b> None	<b>DECOMPOSITION TEMPERATURE:</b> Not available
<b>EVAPORATION RATE, water = 1:</b> 1	<b>VISCOSITY:</b> Not available
<b>FLAMMABILITY (SOLID, GAS):</b> Not applicable	<b>FLAMMABLE LIMITS:</b> <b>UPPER:</b> Not applicable <b>LOWER :</b> Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Conditions to Avoid

Store away from incompatible materials.

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

None

### Incompatible Materials

Strong or chlorinated alkali, amphoteric or light metals.

### Hazardous decomposition products

Oxides of sulfur, acid vapors, toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

**ATE<sub>mix</sub>** – LD50 oral – approx. >17 g/kg (rat), LD50 dermal – approx. >88 g/kg (rabbit), LC50 inhalation-vapors – approx. ≥2.1 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sulphuric acid 7664-93-9	2140 mg/kg (rat)	Not available	255 mg/m <sup>3</sup> – 4 h (rat)
alcohols, C12-C15, ethoxylated 68131-39-5	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
hydrofluoric acid 7664-39-3	Not listed	Not listed	1300 ppm – 60 min (rat)

### Information on likely sources of exposure

#### **Serious eye damage/irritation**

Corrosive to eyes and may cause grave lesions, including blindness.

#### **Skin corrosion/irritation**

Corrosive to skin with prolonged contact.

#### **Ingestion**

Ingestion may cause burns to the digestive and respiratory tract.

#### **Inhalation**

Spray mist may cause irritation or burns to respiratory tract.

### Delayed and immediate effects and also chronic effects from short and long-term exposure

#### **Respiratory or skin sensitization**

Not a sensitizer.

#### **Germ cell mutagenicity**

None known.

#### **Carcinogenicity**

No listed human carcinogens.

#### **Reproductive toxicity**

No information available.

#### **STOT - single exposure**

No information available.

#### **STOT - repeated exposure**

hydrofluoric acid (CAS 7664-39-3) 2 Prolonged exposure may cause bone and joint changes in humans

#### **Aspiration Hazard**

None known.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms include tingling sensation and / or reddening of tissues, eventually leading to burn lesions.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Fish	Waterflea	Algae
sulphuric acid 7664-93-9	500 mg/L: 96 h brachydanio rerio LC50	Not available	Not available
alcohols, C12-C15, ethoxylated 68131-39-5	5-10 mg/L: 96 h LC50	5-10 mg/L: 48 h EC50	10-100 mg/L: 72 h EC50
hydrofluoric acid 7664-39-3	60 ppm: fresh water fish, lethal	Not available	Not available

### Persistence and degradability

Not applicable to inorganic materials.

### Bioaccumulative potential

Significant accumulation in organisms is not to be expected.

### Mobility in soil

No information available

### Other adverse effects

Do not release untreated in natural waters.

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Method

Dispose of in accordance with local regulations.

### Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

UN Number: 2922  
 UN Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Hydrofluoric Acid and Sulfuric Acid Mixture)  
 Transport Hazard Class(es):  
     Class: TDG: 8 (6.1)  
             US DOT: 8 (6.1)  
             IMDG: 8 (6.1)  
 Label(s): 8 (6.1)  
 Packing Group: III  
 Marine Pollutant: No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
 Not determined

## 15. REGULATORY INFORMATION

### Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

### United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

### HMIS Information:

Health: 2  
 Flammability: 0  
 Reactivity: 0

## 16. OTHER INFORMATION

### Preparation Date

17 August 2016

### Revision Date

10 June 2022

### Revision Note

**Revision 3** – Change in TDG PG number

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**