

1. IDENTIFICATION

Product Identifier

Product Name ACID WASH 201 (AW 201)
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 a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant/container with a resistant liner.

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	3-7
alcohols, (C12-15 In. saturated), ethoxylate	68131-39-5	0.5-1.5
hydrofluoric acid	7664-39-3	0.5-1.5

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.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician.

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.

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. Use recommended personal protective equipment.

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 ³ ceiling	TWA: 1 mg/m ³	15mg/m ³
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

VAPOR PRESSURE, mm Hg AT 20°C (68°F):
Not available

ODOR: Acidic	VAPOR DENSITY (Air = 1): Not available
ODOR THRESHOLD: Not applicable	RELATIVE DENSITY AT 20°C (68°F): 1.040-1.050
pH: <1.0	SOLUBILITY IN WATER: Complete
MELTING POINT / FREEZING POINT: Approx. -5 °C (23°F)	PARTITION COEFFICIENT, N-OCTANOL/WATER: Not available
BOILING POINT/BOILING RANGE: Approx. 100 °C (212°F)	AUTO-IGNITION TEMPERATURE: Not available
FLASH POINT: None	DECOMPOSITION TEMPERATURE: Not available
EVAPORATION RATE, water = 1: 1	VISCOSITY: Not available
FLAMMABILITY (SOLID, GAS): Not applicable	FLAMMABLE LIMITS: UPPER: Not applicable LOWER: 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_{mix} – LD50 oral – approx. >30 g/kg (rat), LD50 dermal – approx. >177 g/kg (rabbit), LC50 inhalation-vapors – ≥4.3 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 ³ – 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

Ingestion	Ingestion may cause burns to the digestive and respiratory tract.
Skin corrosion/irritation	Corrosive to skin with prolonged contact.
Inhalation	Spray mist may cause irritation or burns to respiratory tract.
Serious eye damage/irritation	Corrosive to eyes and may cause grave lesions, including blindness.

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. Eye damage or irritation. Ingestion may cause irritation or burns of mouth, esophagus and stomach, abdominal pain, nausea, vomiting, diarrhea. Inhalation may cause irritation or burns of nose, mouth, and upper respiratory tract. Toxicological ratings applied through potential delayed effects as noted in Section 4.

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: freshwater 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: 1786
 UN Proper Shipping Name: 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

19 August 2016

Revision Date

22 September 2021

Revision Note

Revision 2 - Modifications to Sections 11 and 14

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