SAFETY DATA SHEET

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 ln. 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 0ºC.

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 20ºC (68ºF):
Not available

ODOR:
Acidic
ODOR THRESHOLD:
Not applicable
pH:
<1.0
MELTING POINT / FREEZING POINT:
Approx. -5 ºC (23ºF)
BOILING POINT/BOILING RANGE:
Approx. 100 ºC (212ºF)
FLASH POINT:
None
EVAPORATION RATE, water = 1:
1
FLAMMABILITY (SOLID, GAS):
Not applicable

VAPOR DENSITY (Air = 1):
Not available
RELATIVE DENSITY AT 20ºC (68ºF):
1.040-1.050
SOLUBILITY IN WATER:
Complete
PARTITION COEFFICIENT, N-OCTANOL/WATER:
Not available
AUTO-IGNITION TEMPERATURE:
Not available
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
Not available
FLAMMABLE LIMITS:
UPPER: Not applicable **LOWER:** Not applicable

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under normal conditions.

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

Conditions to Avoid
Store away from incompatible materials.

Possibility of hazardous reactions
None

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: 3264
UN Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (hydrofluoric acid solution)
Transport Hazard Class(es)
Class: TDG: 8
US DOT: 8
IMDG: 8
Label(s): 8
Packing Group: II
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 10 June 2022
Revision Note **Revision 3 –** Change in TDG UN Code

End of SDS