



SAFETY DATA SHEET

Acretech LLC

Acid Replacement Technology

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Identification of Preparation: Acid Replacement Technology.
Date of Safety Data Sheet: September 6, 2020
Use of Preparation: Scale remover/acid replacement cleaner.
Company Identification: Acretech LLC
411 Conway Meadows Drive
Chesterfield, MO 63017

Company Emergency Telephone Number Emergency Phone: 636-391-3000

2. HAZARD IDENTIFICATION

Emergency Overview:
OSHA/ WHMIS 2015 Hazards:
Classification of substances or mixture
GHS-US/ Canadian classification:
Eye Damage/ Irritation Category 2A H319
Label Elements
GHS-US Labeling
Hazard Pictograms (GHS):



Signal Word (GHS): Warning

Hazard Statements (GHS):

H319: Causes serious eye irritation

Precautionary Statements (GHS):

P264: Wash hands thoroughly after handling.

P280: Wear face protection or eye protection.

Response Statements (GHS):

P301+P310+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Organic Acid Salt	Proprietary	5-10	Serious Eye Damage / Eye Irritation Category 2A- H319

4. FIRST AID MEASURES

General Advice:	Remove to fresh air. If symptoms persist, consult a doctor.
Eye Contact:	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin Contact:	Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
Ingestion:	Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Immediately call a POISON CENTRE or doctor/physician.
Inhalation:	Remove to fresh air.
Notes to Physician:	Treatment based on judgment of attending physician.
Most important symptoms and effects, both acute and delayed:	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Any standard extinguishing media (alcohol foam, water spray or fog, CO2 dry chemical, etc.).
Unsuitable extinguishing media:	High volume/jet water.
Special exposure hazards:	Thermal decomposition releases irritating gases.
Special safety equipment:	Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion	Not flammable. Not an explosion hazard.
Further information	Keep containers and surrounding cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes. Avoid prolonged contact with skin and clothing. Do not breathe vapour or mist.

For Non-Emergency Personnel:

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel:

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up:

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections:

See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

Information about fire and explosion protection:

Keep respiratory protective device available.

No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage: Alkaline, Oxidizers, reducing agents.

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Unsuitable material for receptacle: aluminium.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Do not store together with alkaline products.

Store away from oxidizing agents.

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well-ventilated area.

Keep container tightly sealed.

Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate Engineering Controls:

Engineering Measures

Showers. Eyewash Stations. Ventilation Systems.

Respiratory protection:

Use local exhaust or dilution ventilation.

Hand protection:

Chemical resistant gloves if risk assessment indicates this is necessary.

Eye protection:

Safety goggles or full face shield.

Skin protection:

Use body-covering impervious clothing if risk assessment indicates this is necessary.



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Working hygiene: Take usual precautions when handling. Workers should wash hands before eating, drinking, or smoking.

Exposure guidelines: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid	Appearance	Clear	Odour	Typical
Colour	Water white	Odour Threshold		Remarks/Method	No data available.
Property	Values	Remarks/Method			
pH	2.0-3.0	None known			
Melting/Freezing Point	No data available	None known			
Boiling Point/Range	No data available	None known			
Flash Point	Not applicable.	None known			
Evaporation Rate	Similar	None known			
Flammability (solid, gas)	Not flammable	None known			
Flammability Limit in Air:					
Upper Limit	No data available	None known			
Lower Limit	No data available	None known			
Vapour Pressure	No data available	None known			
Vapour density	No data available	None known			
Specific Gravity	1.05 g/cm ³				
Water Solubility	Soluble in water.	None known			
Solubility Other Solvents	No data available	None known			
Partition Coefficient:					
n-octanol/water	No data available	None known			
Autoignition temperature	No data available	None known			
Decomposition	No data available	None known			
Temperature					
Kinematic Viscosity	No data available	None known			
Dynamic Viscosity	No data available	None known			
Explosive Properties	No data available	None known			
Oxidizing Properties	No data available	None known			
 <u>Other Properties:</u>					
Softening Point	No data available				
VOC Content %	No data available				
Particle Size	No data available				
Particle Size Distribution	No data available				



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10. STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	Stable up to 230°F /110 °C Heating above 230°F/ 110 °C results in an exothermic decomposition with rapid release of CO2 gas
Thermal decomposition/conditions to avoid:	Reacts with alkali, aluminum, amines, and oxidizing agents. Corrodes aluminium.
Possibility of hazardous reactions	Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid contact with oxidizers.
Conditions to avoid	Store away from oxidizing agents. Warning! Do not use together with other products. May release dangerous gases Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat and toxic gases.
Hazardous decomposition products	
Materials to avoid	Oxidizing agents, acids, chlorates, and nitrates.
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not classified.

LD/LC50 values relevant for classification

Organic Acid Salt

LD50 (Oral) Rat: 1,357 mg/Kg

LD 50 (Dermal) Rat 3,698 mg/Kg

Primary irritant effect:

On the skin: Prolonged or repeated contact can cause mild skin irritation

Non-Corrosive to Skin and not classified as a skin irritant under GHS.

On the eye: Causes eye irritation. Pain, watering, and redness.

Ingestion: Unclassified.

Inhalation: Unclassified.

Additional toxicological information: The product shows the following dangers according to the calculation method: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Respiratory or Skin Sensitization: No ingredients classified as sensitizer.

Additional toxicological information:

Carcinogenicity:

Chemical Name None

Reproductive Toxicity: Not classified as hazardous.

Specific Target Organ Toxicity

Single Exposure: Not classified as hazardous.

Specific Target Organ Toxicity

Single Exposure: Not classified as hazardous.

Aspiration Hazard: Not an aspiration hazard.

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12. ECOLOGICAL INFORMATION

Toxicity:	Not available.
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available.
Other Adverse Effects	Not available.
Other Information:	Avoid release to the environment.

13. DISPOSAL

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT): Not Regulated Material

Canadian T.D.G.: Not Regulated Material

Water Transportation (IMO): Not Regulated Material

Air Transportation (IATA): Not Regulated Material

15. REGULATION

Occupational Health & Safety Regulations:

WHMIS 1988 Classification: Class D - Division 2B.



OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	-
PICCS	Complies
AICS	Complies

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances



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Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Listed on the United States TSCA (Toxic Substances Control Act) inventory

U.S. State Regulations

California Prop. 65

This product does not contain any Proposition 65 chemicals.

HMIS III Rating

Health: 1 Hazard

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

Personal Protection: C

SDS US (GHS HazCom 2012 and WHMIS 2015)

16. OTHER INFORMATION

Prepared By: Lizmar
551 Catchmore Road,
Campbellford, Ontario
K0L 1L0

Issuing Date: September 6, 2020

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However, we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet