

SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Product: CT 9000

Description: RTU Inhibited Acid / Low pH

Company Identification: Chemtech, Inc.
1621 N. 1st St.
Winterset, IA 50273
Phone: 888-570-5333
Website: www.chemtechus.com



Company Emergency Telephone Number: CHEMTREC 1-800-424-9300

SECTION II: HAZARD(S) IDENTIFICATION

GHS CLASSIFICATION Not classified.

Acute Toxicity - Inhalation: Specific target organ toxicity, single exposure - Category 3 - respiratory tract irritation.

Skin Corrosion/Irritation: Category 1

Eye Damage/Eye Irritation: Serious eye damage / eye irritation - Category 1.

Acute Toxicity - Oral: Category 4

Corrosive to Metals: Category 1

GHS LABEL ELEMENTS

Signal Word: **Danger**

Hazard Pictograms:



Hazard Statements: Harmful if swallowed. - H302
Causes severe skin burns and eye damage. - H314
Causes serious eye damage. - H318
May cause respiratory irritation. - H335

PRECAUTIONARY STATEMENTS

Prevention: Do not breath dust/fumes/gas/mist/vapors/spray. - P260
Do not eat, drink or smoke when using his product. - P270
Use only outdoors or in a well-ventilated area. - P271
Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response: Specific treatment (see this label). - P321
Wash contaminated clothing before reuse. - P363

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. - P305+351+338

Skin: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. - P303+361+353

Inhalation: IF INHALED: Move person to fresh air and keep comfortable for breathing. - P304+340

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. - P301+330+331

Spill: Absorb spillage to prevent material damage. - P390

Storage: Store in accordance with local/regional/national and international regulations.
Store in a well-ventilated place. Keep container tightly closed. - P403+233
Store away from incompatible materials. Store locked up. - P420+405

Disposal: Dispose of contents in accordance with local/regional/national and international regulations. - P501

Hazards Not Classified: None known (HNOC).

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight - %
Hydrochloric Acid	7647-01-0	30-40%

Specific chemical identity and/or exact percentage of mixture has been withheld as a trade secret.

SECTION IV: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do - continue rinsing. Call physician or POISON CENTER immediately.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower, call a Physician or POISON CONTROL CENTER immediately. Chemical burns must be treated by a physician. Wash contaminated clothes before reuse.

Inhalation: Move victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion: Call a physician or POISON CONTROL CENTER immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents do not get into lungs.

SYMPTOMS OF EXPOSURE

Most Important Symptoms/Effects, Acute and Delayed: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.

Indications of Immediate Medical Attention and Special Treatment Needed: Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General Information: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION V: FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, foam, dry chemical powder, carbon dioxide (CO₂). DO NOT use water jet as an extinguisher as this will spread the fire.

Specific Hazards from the Chemical: During fire, gases hazardous to health may be formed.

Hazardous Combustion Products: No unusual fire or explosion hazards noted.

Protective Equipment / Precautions for Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of a fire. Move containers from fire area if it can be done without risk. Use standard firefighting procedures and consider the hazards of the other involved materials.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing for clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection see Section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods for Cleaning Up: This product is miscible in water. Should not be released into the environment.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material if possible without risk. Dike the spilled material where possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place in containers. Following product recovery, flush area with water.

Never return spills to original containers for re-use. For waste disposal, see Section 13.

SECTION VII: HANDLING AND STORAGE

Safe Handling: Do not breathe mist or vapor. Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Storage Conditions for Safe Storage, Including any Incompatibilities: Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10).

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Hydrochloric Acid	2 ppm	7 mg/m ³ - 5 ppm	7 mg/m ³ - 5 ppm

Engineering Controls: Good general ventilation (typically 10 air exchanges per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear chemical goggles and face shield. Do not get into eyes. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin/Body Protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing. An impervious apron is recommended.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment - chemical respirator with organic vapor cartridge.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General Hygiene: Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash clothing and protective equipment to remove contaminants.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color	Liquid / Clear Yellow
Odor	Typical Acid
pH	1.5 - 2.0
Melting Point / Freezing Point	No information available
Boiling Point / Boiling Range	> 212 ^o F
Flash Point	> 100 ^o C / > 212 ^o F
Evaporation Rate	No information available
Flammability (Solid, gas)	No information available
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.445
Solubility(ies)	No information available
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

SECTION X: STABILITY AND REACTIVITY

Reactivity:	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reaction:	Hazardous polymerization does not occur.
Conditions to Avoid:	Do not mix with other chemicals. Contact with incompatible materials.
Incompatible Materials:	Water, bases, oxidizing agents, reducing agents, metals, amines, alkalis, organic compounds.
Hazardous Decomposition:	Hydrogen Chloride gas.

SECTION XI: TOXICOLOGICAL INFORMATION**INFORMATION ON TOXICOLOGICAL EFFECTS**

Component Acute Toxicity:	In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effect. Harmful if swallowed. May cause respiratory irritation.
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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric Acid	900 mg/kg (Rabbit)	1,449 mg/kg (Mouse)	1,108 ppm, 1 hr (Mouse) / 3,124 ppm, 1 hr (Rat)

LIKELY ROUTES OF EXPOSURE

Inhalation:	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin Contact:	Causes severe skin burns.
Eye Contact:	Causes serious eye damage.
Ingestion:	Causes digestive tract burns. Harmful if swallowed.
Symptoms of Exposure:	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. coughing.
Skin Corrosion / Irritation:	Causes severe skin burns and eye damage.
Serious Eye Damage / Eye Irritation:	Causes serious eye damage.

Respiratory Sensitization: Not a respiratory sensitizer.

Skin Sensitization: This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available to indicate product or any components present at a greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity: Hydrochloric Acid (CAS 7647-010) - 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity:
Single Exposure: May cause respiratory irritation.
Repeated Exposure: Not classified.

Aspiration Hazard: Not an aspiration hazard

Chronic effects: Prolonged inhalation may be harmful.

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity: Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Chemical Name	Algae/Aquatic Plants	Fish	Microtoxicity	Crustacea
Hydrochloric Acid		282 mg/l, 96 hours		

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal of Waste: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT:

UN/ID #: 1760

Proper Shipping Name: Compound, Cleaning, Liquid, (Hydrochloric Acid Solution).

Hazard Class: 8

Packing Group: II

SECTION XV: REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory):

All chemical components in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313: Hydrochloric Acid (cas #7647-01-0) 30-40% by weight

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard - Immediate: Yes
Chronic Health Hazard - Delayed: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

California Proposition 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION XVI: OTHER INFORMATION

Issue Date: 06/01/15 **HAZARD RATINGS:**
Version #: 1 **NFPA:** Health: 3 Flammability: 0 Instability: 0
HMIS: Health: 3 Flammability: 0 Physical Hazards: 0

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