

SAFETY DATA SHEET



GATOR PISS



Section 1: Identification

Product Name: GATOR PISS

Chemical Name/Synonyms: Etching solution, copper etchant, carbon etchant

Company: Baker Forge & Tool LLC

Gator Piss is designed as a chemical etchant for carbon steels and steels laminated with non ferrous material such as copper, nickel and bronze.

Chemical Manufacturers:

SUNBELT CHEMICALS 71 HARGROVE GRADE PALM COAST, FLORIDA 32137

MG Chemicals 1210 Corporate Drive Burlington, Ontario, Canada L7L 5R6

In emergency call 911.

24 Hour Emergency Telephone Number CHEMTREC 1- 800 - 424 - 9300

Compatibility

Chemical—Ferric chloride reacts strongly with metals.

Storage:

Store between 16 and 27 °C [60 and 80 °F] in a dry area. Store in plastic container. Do NOT store in metal containers.

Usage Parameters:

Shelf life - 6 months

Application Instructions:

For best results, follow the procedure below. For further directions for etching please visit our website www.gatorpiss.shop

Start with a surface finish of 600 grit minimum! 800-1000 preferred (Higher you go, the higher luster you'll have in the final finish)

Degrease with Brake Cleaner

Place steel into Gator Piss and watch for any streaks (If streaks appear immediately pull steel from etchant and scrub with a plastic bristled brush, or repeat step one) (If streaks are not present leave in the piss for about 20 minutes)

Repeat this process for desired etched depth (Enough to catch a finger nail)

Once you have pulled the steel from its final etch immediately neutralize acid on blade with a neutralizing agent such as windex or submerge in a baking soda bath.

Dry the steel quickly by blowing dry with compressed air.

Let oxides set for a minimum of 6 hours in a dry location before touching the steel again

Oil and wipe for final luster

To speed up etching:

• *Warm the ferric chloride solution between 35 to 55 °C [95 to 131 °F].*

• ***ATTENTION! Do NOT heat ferric chloride solution above 55 °C [131 °F].***

• ***NOTE: Dilution is not recommended.***

Section 2: Hazard(s) Identification

Hazard Classification:



H318: Causes serious eye damage
H290: May be corrosive to metals



H315: Causes skin irritation
H302: Harmful if swallowed

H402: Harmful to aquatic life

Emergency Overview: DANGER!

- Causes severe skin burns and eye damage.
- May cause respiratory irritation.
- Onset of symptoms may be delayed following exposure.

Precautionary Statements:

Keep out of reach of children.

Wear eye protection and protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Store in corrosion resistant container with a resistant inner lining.

Dispose of contents in accordance to local, regional, national, and international regulations.

Section 3: Composition/ Information on Ingredients

Components		CAS#	Conc.
Hydrochloric Acid	Corrosive 1B, STOT-SE 3; H314, H335	7647-01-0	<8%
Iron Trichloride	Cl ₃ Fe or FeCl ₃	7705-08-0	<5%

Iron Dichloride			>1%
Distilled Water	Not considered hazardous according to GHS criteria		

In accordance with *WAC 296-901-14018* exact chemical identity and exact percentage concentration of composition has been withheld as trade secret under the Gator Piss trademark filing

Section 4: First-Aid Measures

After skin contact: In case of contact with liquid, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

After eye contact: Immediately flush eyes with plenty of flowing water for at least 15 minutes, while lifting upper and lower eyelids. Seek immediate medical attention.

After inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

After swallowing: DO NOT INDUCE VOMITING. Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

Fire Fighting Measures:

NFPA 704 ratings: Health 3. Flammability 0 Reactivity 1 COR

Fire: Not considered to be a fire hazard. May react with metals to form flammable hydrogen gas.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Water or water spray. Neutralize with soda ash or slaked lime.

Special Information: In the event of fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA), with full face shield, operated in positive pressure mode. Structural firefighting protective clothing is ineffective for fires involving hydrochloric acid. Stay away from ends of tanks. Cool tanks and drums with water spray until well after fire is out.

Section 6: Accidental Release Measures

Personal Protection:

See personal protection recommendations in Section 8.

Precautions for Response:

Avoid breathing the mist, spray or fumes.

Environmental Precautions:

Avoid releasing to the environment. Prevent spill from entering drains and waterways.

Containment Methods:

Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).

Cleaning Methods:

Neutralize with lime (Ca(OH)₂ or CaCO₃) or soda ash/sodium carbonate (Na₂CO₃). Collect liquid in a plastic container. Wash spill area with soap and water to remove the last traces of residue.

Disposal Methods:

Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention:

Keep out of reach of children.
Do not eat, drink or smoke when using this product.
Take off all contaminated clothing and wash it before reuse.
Avoid release to the environment.

Handling:

Keep only in original packaging. Absorb spillage to prevent material-damage. Collect spillage.
Wear eye protection, face protection, and protective gloves. Wash thoroughly after handling.

Storage:

Store in corrosion resistant container with a resistant inner lining.

Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (STEL)
iron trichloride	U.S.A	1 mg/m ³	Not established
hydrogen chloride	U.S.A	Not established	5 ppm (Ceiling)
iron dichloride	U.S.A	1 mg/m ³	Not established

General protective and hygienic measures:

Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Ensure that glasses have side shields for lateral protection.

For likely contacts, use of protective butyl rubber or other chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant gloves.

For over-exposures up to 10 x OEL of mist or spray, wear respirator such as a N95 particulate respirator or an AG acid gas respirator.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional.

Section 9: Physical and Chemical Properties

Form: Liquid

Odor: Slight Acidic

Odor threshold: N/A

pH: <1

Boiling point/boiling range: 230F

Flash point: N/A

Evaporation rate: >1 (BuAc=1)

Flammability: Non Flammable

Upper/lower flammability or explosive limits: N/A

Auto ignition temperature: N/A

Danger of explosion: Non

Vapor pressure: Negligible

Vapor density: 1 (Air=0)

Relative density: 1.38-1.49

Solubility in/Miscibility with water: Soluble

Section 10: Stability and Reactivity

Reactivity

Reacts with metals to form flammable hydrogen gas. React with alkalis (bases).

Chemical Stability

Chemically stable at normal temperatures and pressures

Conditions to Avoid

Avoid extreme heat, open flames, and incompatible substances.

Do not use in a manner that forms fumes, vapors, or mist.

Above >200 °C, toxic and corrosive gases including chlorine, hydrogen chloride, and iron oxides may be released.

Incompatibilities

Alkali metals, allyl chloride, ethylene oxide, nylon, styrene, strong oxidizing agents, strong bases

Polymerization

Will not occur

Decomposition

Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Eyes

Causes redness, severe irritation, pain, or burns.

Skin

Causes redness, pain, or brown stains on skin.

Inhalation

Inhalation of vapors or mist may cause coughing, respiratory tract irritation, or sore throat.

Exposure to large doses of hydrogen chloride can cause cough, labored breathing, and shortness of breath.

Ingestion

May cause severe irritation to the mouth, throat, esophagus, and stomach. In large doses, it may also cause abdominal pain, nausea, vomiting, diarrhea.

Chronic

No known effects

Section 12: Ecological Information (non-mandatory)

Ecotoxicity:

Category 3

Harmful to aquatic life

Avoid release to the environment. Collect spillage.

Biodegradation:

The content is not readily biodegradable.

Bioaccumulation:

N/A

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information**Land Transport**

USDOT

Hazard class: 8

Packing group: III

ID number: 1789

Proper shipping name: HYDROCHLORIC ACID

Sea Transport

IMDG

Hazard class: 8

Packing group: III

ID number: 1789

Proper shipping name: HYDROCHLORIC ACID

Air transport

IATA/ICAO

Hazard class: 8

Packing group: III

ID number: 1789

Proper shipping name: HYDROCHLORIC ACID

Section 15: Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313: CAS Number 7647-01-0

Chemical name hydrochloric acid

CERCLA RQ

5000 LBS - 64-19-7; 7647-01-0 - hydrochloric acid

1000 LBS - 7705-08-0 - Iron trichloride

State regulations

State RTK (MA,NJ,PA) CAS NUMBER (7647-01-0)

Chemical name - Hydrochloric acid

NFPA Hazard Codes:

Health: 3 Fire: 0 Reactivity: 1 Special:

HMIS III rating:

Health: 2 Flammability: 0 Physical Hazard: 0

Section 16: Other Information

SDS Prepared by: C. **B**

SDS Prepared on: 2022/08/13

Edit: 6/13/2023

We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.