

# Material Safety Data Sheet



## Red Bird Service

205 Western Avenue P.O. Box 155 Osgood, IN 47037 USA  
 Phone: +1-812-689-4040 FAX: +1-812-689-4061

Health:	3 - Hazardous
Fire:	0 - Minimal
Reactivity:	0 - Minimal

Product: Hydrochloric-Picric Etch

MSDS: 99667

Preparation Date: 4/9/2001

Revision No: 0

### Section 1 - Chemical Product and Company Identification

Product Chemical Name: A chemical mixture

Chemical Formula:

CAS No:

Manufacturer: Red Bird Services PO Box 155 205 Western Avenue Osgood IN 47037

For Emergency, call Chemtrec 24 hours a day...800-424-9300

Catalog Number: HX-996

Synonyms: N/A

### Section 2 - Composition / Information on Ingredients

Ingredient	CAS Number	% wt or N
Ethyl Alcohol	64-17-5	balance
Hydrochloric Acid	7647-01-0	<72
Picric Acid	88-89-1	<15

# Material Safety Data Sheet

**Product:** Hydrochloric-Picric Etch

**MSDS:** 99667

**Preparation Date:** 4/9/2001

**Revision No:** 0

## Section 2 - Composition / Information on Ingredients

OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
TWA	STEL	TWA	STEL	TWA	STEL	
not estab.	not estab.	not estab.	not estab.	not estab.	not estab.	not estab.
7mg/m3	7mg/m3	27.5mg/m3	not listed	not listed	not listed	50ppm
not listed	not listed	1mg/m3	Not listed	not listed	not listed	not listed

## Section 3 - Hazard Information

### \*\*\* EMERGENCY OVERVIEW - Potential Health Effects \*\*\*

**Primary Entry Route:** Inhalation, digestion, and skin contact

**Target Organs:** Eyes, respiratory system, digestive system, CNS, kidneys

**Acute Effects:** Irritation, eyes and respiratory track to organ damage at high concentrations over an extended period of time

**Inhalation:** Irritant

**Eye:** Irritant

**Skin:** Irritant

**Ingestion:** Irritant

**Carcinogenicity:** Not considered to be.

**Medical Conditions:** None listed.

**Chronic Effects:** The deaturants present make this product much more toxic than ethanol.

## Material Safety Data Sheet

**Product:** Hydrochloric-Picric Etch

**Preparation Date:** 4/9/2001

**MSDS:** 99667

**Revision No:** 0

### Section 4 - First Aid Measures

**Inhalation:** Move to fresh air, give oxygen if difficulty in breathing. Get medical attention.

**Eye Contact:** Flush with water for at least 15 minutes, including under eyelids. Get medical attention.

**Skin Contact:** Flush with water for 15 minutes. If irritation persists, get medical attention.

**Ingestion:** Give water to drink to dilute material. Induce vomiting. Never give anything by mouth to anyone who is unconscious or convulsing. Get medical attention.

**Special Precautions:** NA

### Section 5 - Fire Fighting Measures

**Flash Point:** 54

**Burning Rate:** N/A

**Auto Ignition Temperature:** 867 F

**LEL:** 6

**UEL:** 36.5

**Flammability Classification:** 3

**Extinguishing Media:** Use that of surrounding fire.

**Unusual Fire/Explosion Hazards :**  
Extremely flammable

**Hazardous Combustion Products:**  
Carbon and nitrogen oxides

**Instructions:** Do not release runoff from fire control methods, to sewers, or waterways.

**Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (scba) with a full facepiece operated with pressure demand or positive-pressure mode.

## *Material Safety Data Sheet*

**Product:** Hydrochloric-Picric Etch

**MSDS:** 99667

**Preparation Date:** 4/9/2001

**Revision No:** 0

### *Section 6 - Accidental Release Measures*

**Spill/Leak Procedures:** Eliminate source of ignition, use only grounded equipment.

**Small Spills:** Absorb with non flammable material.

**Large Spills:** For containment; dike far ahead of the spill. Absorb with non-flammable material.

**Regulatory Requirement:** Follow applicable OSHA regulations (29 CFR 1910.120).

### *Section 7 - Handling and Storage*

**Handling Precautions:** Wear safety glasses, goggles, or face shield, safety gloves, personal protective clothing, or respirator or airlines as required in section 8 in this MSDS.

**Storage Requirement:** Store in closed container, cool, dry, in well-ventilated area, away from source of heat, and incompatible materials.

**Regulatory Requirement:** See section 15 of this MSDS.

## Material Safety Data Sheet

**Product:** Hydrochloric-Picric Etch

**MSDS:** 99667

**Preparation Date:** 4/9/2001

**Revision No:** 0

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** N/A

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:** N/A

**Respiratory Protection:** Seek professional advise prior to respirator selection and use, Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Select respirator based on it's suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels or storage tanks), wear an SCBA. Warning! Air purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing / Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety glasses. Per OSHA eye-and-face-protection regulations (29 CFR 1910.133).

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Contact lenses are not safety protection; soft lenses absorb and all lenses concentrate exposure. Practice good personal hygiene after use of this material especially before eating, drinking, smoking, using the toilet or applying cosmetics. Never eat, drink, or smoke in work areas.

# Material Safety Data Sheet

**Product:** Hydrochloric-Picric Etch

**Preparation Date:** 4/9/2001

**MSDS:** 99667

**Revision No:** 0

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	liquid	<b>pH:</b>	NA
<b>Odor Threshld:</b>	100% of test panel	<b>Boiling Point:</b>	64.5 C
<b>Vapor Press:</b>	100 @ 21.2 C, mm Hg	<b>Freezing/ Melting Point:</b>	NA
<b>Vapor Density</b>	1.1	<b>Viscosity:</b>	N/A
<b>Formula Wgt:</b>	N/A	<b>Refract Index:</b>	N/A
<b>Density:</b>	N/A	<b>Surface Tension:</b>	N/A
<b>Spec Gravity:</b>	0.791	<b>% Volatile:</b>	NA
<b>Appearance Odor:</b>	liquid with alcohol odor.		

**Other  
Solubility:** N/A

**Evaporation  
Rate:** NA

**Water  
Solubility:** Complete

## Section 10 - Stability and Reactivity

**Stability:** Stable

**Polymerization:** Cannot not occur

**Chemical  
Incompatibilities:** strong oxidizers

**Conditions to  
Avoid:** Avoid contact with oxidizing agents, heat, and ignition sources.

**Hazardous  
Decomposition  
Products:** Carbonand nitrogen oxides.

# Material Safety Data Sheet

**Product:** Hydrochloric-Picric Etch

**Preparation Date:** 4/9/2001

**MSDS:** 99667

**Revision No:** 0

## Section 11 - Toxicological Information

**Eye Effect:** Irritation

**Skin Effect:** Irritation

**Acute Inhalation Effects:** Irritation

**Acute Oral Effects:** Irritation

**Chronic Effects:** See section 3 in this MSDS.

**Carcinogenicity:** Not listed

**Mutagenicity:** Not listed

**Teratogenicity:** Not listed

## Section 12 - Ecological Information

**Ecotoxicity:** N/A

**Environmental Fate:** N/A

**Environmental Transport:** N/A

**Environmental Degradation:** N/A

**Soil Absorption Mobility:** N/A

## Section 13 - Disposal Considerations

**Disposal:** See section 6 of this MSDS

**Disposal Regulatory Requirements:** See section 15 of this MSDS.

**Container Cleaning and Disposal:** N/A

# Material Safety Data Sheet

**Product:** Hydrochloric-Picric Etch

**Preparation Date:** 4/9/2001

**MSDS:** 99667

**Revision No:** 0

## Section 14 - Transport Information

### DOT Transportation Data (49 CFR 172.101)

<b>Shipping Name:</b>	Corrosive liquid, Acidic, Inorganic, N.O.S.(Hydrochloric-Picric Acid)	<b>Non-Bulk Packaging:</b>	202
<b>Shipping Symbols</b>	N/A	<b>Bulk Packaging:</b>	242
<b>Hazard Class:</b>	3	<b>Quantity Limitations:</b>	
<b>ID No:</b>	UN3264	<b>Passenger, Air, or Rail :</b>	1L
<b>Packing Group:</b>	II	<b>Cargo Aircraft Only:</b>	30L
<b>Label:</b>	Corrosive	<b>Vessel Stowage Requirements:</b>	
<b>Special Provision:</b>	B2, T14	<b>Vessel Stowage:</b>	B
<b>Packaging Exceptions:</b>	154	<b>Other:</b>	40

## Section 15 - Regulatory Information

EPA Regulation:  
 RCRA hazardous waste number: listed (40 CFR 261.33)  
 RCRA hazardous Waste classification: (40 CFR 261.??): classified.  
 CERCLA hazardous Substance (40 CFR 302.4): not listed specific peer RCRA, Sec 3001; CWA, Sec 311 (b)(4); CWA,,Sec 307(a),  
 CAA:  
 CERCLA Reportable Quality (RQ):  
 SARA 311/312 Codes:  
 SARA Toxic Chemical (40 CFR 372.65):  
 SARA EHS (Extremely hazardous substance)(40 CFR 355): listed, Threshold Planning Quality (TPQ) Listed  
 OSHA Regulations:  
 Air contaminant (29 CFR 1910.1000, Table Z-1-A):  
 OSHA Specifically Regulated Substance(29 CFR 1910.1000):  
 State Regulations: STCC Listed,  
 DOT(40 CFR 172.101 Append.):  
 ACGIH Threshold Limit Value:  
 MAK: listed  
 TSCA: listed  
 ANNEX I: listed

# Material Safety Data Sheet

Product: Hydrochloric-Picric Etch

Preparation Date: 4/9/2001

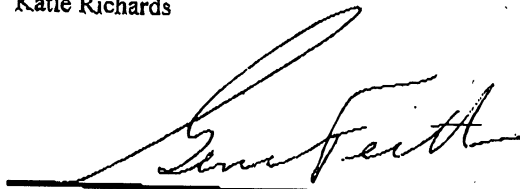
MSDS: 99667

Revision No: 0

## Section 16 - Other Information

Prepared By: Katie Richards

Approved By:

 **GENE FEITH**

Disclaimer: Judgements as to suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Red bird service extends no warranties, suitability of such information for application to purchasers intended purposes or for the consequences of its use.