

# MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING	
HEALTH	4
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	D

DATE OF PREPARATION  
FEBRUARY 26, 2008  
BY TECHNICAL SERVICES

DATE OF REVIEW/UPDATE

## SECTION 1 - PRODUCT IDENTIFICATION

ITEM NUMBER

**1935**

PRODUCT NAME

**TECHNICIAN'S CHOICE TEC655 EXPRESS ACID WHEEL CLEANER**

PRODUCT CLASS

Acid Cleaner

## SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT CAS NUMBER	MAX. % BY WT.	TLV <sup>1</sup>	PEL <sup>2</sup>
HYDROFLUORIC ACID 7664-39-3	1-5	3ppm	3ppm
PHOSPHORIC ACID 7664-38-2	1-5	1mg/m3	1mg/m3
2-BUTOXYETHANOL 111-76-2	1-5	25ppm	25ppm

Listed as IARC, NTP, or OSHA Carcinogen: None

## SECTION 3 - PHYSICAL CHARACTERISTICS

BOILING POINT:	>200F
VAPOR PRESSURE(mmHg @ 68F)	UNKNOWN
VAPOR DENSITY(AIR=1)	UNKNOWN
SOLUBILITY IN WATER:	COMPLETE
SPECIFIC GRAVITY:	1.11+/-0.05
% VOLATILE (VOLUME)	96.0+/-2.0
MELTING POINT:	NOT APPLICABLE
EVAPORATION RATE(WATER=1)	1
APPEARANCE AND ODOR:	CLEAR LIQUID, ACRID ODOR
pH	1.0+/-0.5

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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA  
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**FLASH POINT / METHOD:** NONE

FLAMMABLE LIMITS: LEL: NONE UEL: NONE

EXTINGUISHING MEDIA:

Water fog, dry chemicals or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Hydrofluoric acid corrodes metal rapidly releasing flammable and explosive concentrations of hydrogen gas.

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SECTION 5 - HEALTH HAZARD DATA  
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**EFFECTS OF OVEREXPOSURE:**

**EYES:** Hydrofluoric acid causes irritation leading to severe damage (burns) to eyes resulting in blindness. Eye contact requires immediate medical attention. Those with preexisting eye problems may be at an increased risk.

**SKIN:** Irritation leading to severe burns which may not be immediately painful or visible. At lower concentrations the resulting burns do not usually become apparent for several hours. Poison through absorption.

**INHALATION:** Hydrofluoric acid is a severe irritant to the nose, throat and lungs. Exposure causes rapid inflammation and congestion of to lungs. Breathing difficulties may not occur until some hours after exposure has ceased. Significant exposure of lungs may cause acute chemical pneumonitis and pulmonary edema that can be fatal. Prolonged or repeated exposure to lower concentrations may cause chronic irritation and congestion of nose, throat and bronchial tubes. Prolonged or repeated exposure may cause hypocalcemia (depletion of calcium) if left-untreated hypocalcemia can be fatal.

**INGESTION:** Poison. If swallowed severe damage of mouth, throat, stomach and mucous membranes will occur.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Exposure to small amounts of fluorides over long periods of time may produce embrittlement and increased calcification of ligaments and vertebrae resulting in spinal stiffness (fluorosis). May exacerbate existing dermatitis. Will aggravate respiratory diseases.

**EMERGENCY AND FIRST AID PROCEDURES:**

**INHALATION:** Remove exposure. Restore breathing. Keep warm and quite. Get medical attention.

**SKIN:** Immediately wash affected area with large amounts of water. Remove contaminated clothing. Apply 2.5% calcium gluconate gel to all affected skin areas. The gel should be rubbed into affected area by a person wearing gloves. Get medical attention.

**EYES:** Flush with large amounts of water. Get medical attention.

**IF SWALLOWED:** Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Vomiting will cause further damage to throat. Give several glasses of water. Seek medical attention immediately.

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SECTION 6 - REACTIVITY DATA  
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STABILITY: Stable  
INCOMPATIBILITY: Strong oxidizers and alkalis  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, fluorine and carbon.  
HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: Do not use with bleach or chlorine.  
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SECTION 7 - SPILL OR LEAK PROCEDURES  
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**STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR LEAKED:**

Contain spill. Cover area with crushed limestone or lime slurry add water to neutralize cautiously. Considerable amounts of harmful vapor may develop. Ventilate. Wear protective clothing. Neutralize residual contamination with limestone and remove to approved landfill.

**WASTE DISPOSAL METHOD:**

Waste from this product and its empty container is hazardous (U134) as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with federal, state and local regulations.  
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SECTION 8 - SPECIAL PROTECTION INFORMATION  
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**VENTILATION:** Use only with adequate ventilation. Avoid breathing vapor or mist. Local exhaust preferred.

**RESPIRATORY PROTECTION:** Properly fitted NIOSH/MSHA approved respirator for ingredients found in SECTION 2. Self contained breathing apparatus for severe exposure.

**SKIN PROTECTION:** Gloves rated for protection against ingredients in SECTION 2. During prolonged exposure or in emergencies work with full protective suite with hood.

**EYE PROTECTION:** Contact lenses should not be used by persons potentially exposed to hydrofluoric acid. Safety glasses with side shields or chemical goggles.  
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SECTION 9 - PRECAUTIONARY INFORMATION  
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**PRECAUTIONS TO BE TAKEN IN STORING AND HANDLING:**

Potentially corrosive to most metals with the evolution of hydrogen gas which is very flammable. Reacts rapidly with organic materials with the evolution of heat. Store away from solvents, gasoline and sources of ignition. Use only with forced ventilation. Employees should be provided with, and required to use impervious clothing, gloves, face shields (eight inch minimum). Facilities for quick drenching of the body and a eye wash station should be provided in the immediately work area for emergency use. Empty containers can contain explosive vapors. Never use a torch to cut or weld on or near container. Never wear soaked clothing. Launder or dry-clean before wearing. Discard soaked shoes. Affix proper warning labels on containers in accordance with 29CFR 1010.1200.

SECTION 10 - REGULATORY INFORMATION

**D.O.T. REQUIREMENTS (49CFR 172.101)**

CORROSIVE, LIQUIDS, TOXIC, N.O.S. (CONTAINING HYDROFLUORIC ACID AND PHOSPHORIC ACID), 8, UN2922, II.  
 LABELS: CORROSIVE, POISON.

**RQ (REPORTABLE QUANTITY) 49CFR 172.101**

COMPONENT	RQ (lb.)	Of Product
HYDROFLUORIC ACID	100	1000
PHOSPHORIC ACID	5000	50000

**TSCA (Toxic Substances Control Act) Status**

The intentional ingredients of this product are listed.

**CERCLA RQ - 40CFR302.4**

COMPONENT	RQ (lb.)	Of Product
HYDROFLUORIC ACID	100	1000

**SARA 302 COMPONENTS - 40CFR 355 Appendix A**

COMPONENT	RQ (lb.)	TPQ (lb.)
HYDROFLUORIC ACID	100	100
PHOSPHORIC ACID	5000	5000

**SECTION 311/312 HAZARD CLASS - 40CFR 370.2**

Immediate (X) Reactive ( )  
 Delayed (X) Sudden Release of Pressure ( )  
 Fire ( )

**SARA 313 COMPONENTS - 40CFR 372.65**

Section 313 Component	CAS Number	Maximum %
HYDROFLUORIC ACID	7664-39-3	10
PHOSPHORIC ACID	7664-38-2	10

**WORKPLACE HAZARDOUS INFORMATION SYSTEM (WHMIS)**

INGREDIENT	MAX. % BY WT.	LD50	LC50
HYDROFLUORIC ACID 7664-39-3	10	unknown	1300ppm(1Hr.)
PHOSPHORIC ACID 7664-38-2	10	unknown	1530mg/kg oral-rat

The information contained herein is based on data we believe to be correct. Any use of the product which is not in conformance with this MSDS or which involves using the product in combination with any other product or any process is the responsibility of the user.

<sup>1</sup> ACGIH  
<sup>2</sup> OSHA