

MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING	
HEALTH	3
FIRE	0
REACTIVITY	1
PERSONAL PROTECTION	F

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22 JANUARY 2003
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SECTION 1 - PRODUCT IDENTIFICATION

ITEM NUMBER
5689
ITEM DESCRIPTION
TEC729 BULK WH WL CLNR
PRODUCT NAME
TEC729 BULK WIRE WHEEL CLEANER
PRODUCT CLASS
Acid Cleaner

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	WT %	TLV ¹	PEL ²
CAS NUMBER			
2-BUTOXYETHANOL	1-6	25ppm	25ppm
111-76-2			
HYDROFLUORIC ACID	1-3	3ppm	3ppm
7664-39-3			
PHOSPHORIC ACID	0.5-2	N.E.	N.E.
7664-38-2			

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: 1.02+/-0.05
% VOLATILE (VOLUME) 96.0+/-2.0
MELTING POINT: NOT APPLICABLE
EVAPORATION RATE(WATER=1) 1
APPEARANCE AND ODOR: CLEAR ORANGE LIQUID, ACIDIC ODOR
pH 1.0+/-0.5

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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

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 (Ammonium Bifluoride) corrodes metal rapidly releasing flammable and explosive concentrations of hydrogen gas.

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SECTION 5 - HEALTH HAZARD DATA

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 to skin 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 which can be fatal. Prolonged or repeated exposure to lower concentrations may cause chronic irritation and congestion of nose, throat and bronchial tubes.

INGESTION: Poison. If swallowed severe damage of mouth, throat, stomach and mucous membranes will occur. Overexposure to 2-butoxyethanol has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders of these organs in humans: mild reversible liver effects, mild reversible kidney effects, blood abnormalities. 2-butoxyethanol has been shown to harm the fetus in laboratory animal studies. Harm to the fetus occurs only at levels that harm the pregnant animal.

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

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

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR LEAKED:

Contain spill and pump to salvage plastic tank. Ventilate. Wear protective clothing. Neutralize residual contamination with limestone and remove with inert absorbent.

WASTE DISPOSAL METHOD:

Waste from this product is hazardous (U134,D002) 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

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

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.

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SECTION 10 - REGULATORY INFORMATION

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

CORROSIVE, LIQUID, TOXIC. N.O.S. (CONTAINS HYDROFLUORIC ACID and PHOSPHORIC ACID), 8, UN2922, II. CORROSIVE. POISON.
 LABELS: POSION, CORROSIVE.

RQ (REPORTABLE QUANTITY) 49CFR 172.101 AND CERCLA RQ - 40CFRV302.4

COMPONENT	RQ (lb.)	Of Product
HYDROFLUORIC ACID	100	2500

TSCA (Toxic Substances Control Act) Status

The intentional ingredients of this product are listed.

SARA 302 COMPONENTS - 40CFR 355 Appendix A

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

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	4.0
GLYCOL ETHER(2-BUTOXYETHANOL)	111-76-2	5.0

WORKPLACE HAZARDOUS INFORMATION SYSTEM (WHMIS)

INGREDIENT	MAX. % BY WT.	LD50	LC50
HYDROFLUORIC ACID	4.0	unknown	1300ppm(1Hr.)
2-BUTOXYETHANOL	5.0	1480mg/kg oral-rat	unknown

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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.

¹ ACGIH

² OSHA