



Miracoil

MSDS Number: AC300D

Revision Date: 05/25/06

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
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2 HAZARDS IDENTIFICATION

Route of Entry: Skin absorption, eye, ingestion, inhalation
Target Organs: NA
Inhalation: Mists and/or vapors can cause burns and/or respiratory irritation.
Skin Contact: Contains HF. Can cause burns which may not be immediately painful or visible.
Eye Contact: Can cause burns
Ingestion: Harmful or fatal if swallowed

HMIS II-ratings (scale 0-4): Health = 3, Fire = 1, Reactivity = 1
HMIS III-ratings (scale 0-4): Health = 3, Fire = 1, Physical Hazard = 1
NFPA-ratings (scale 0-4): Health = 3, Fire = 1, Reactivity = 1

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Chemical Name	Perc.	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
7664393	Hydrofluoric Acid	1-10	3*	3*	D
7664382	Phosphoric Acid	1-10	1mg/m3	1mg/m3	D
111762	Ethylene Glycol Monobutyl Ether	1-10	25	25	D



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4 FIRST AID MEASURES

Inhalation: Remove to fresh air. Resuscitate if necessary. Seek medical attention.
Skin Contact: Wash with soap and water. If irritated seek medical attention.
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.
Ingestion: Do not induce vomiting. Give two large glasses of water. Get immediate medical attention.

5 FIRE FIGHTING MEASURES

Flash Point: None to boiling
Flash Point Method: T.C.C
Burning Rate: ND
Autoignition Temperature: ND
LEL: ND
UEL: ND
Flammability Classification: ND

Extinguishing media: Foam, dry chemical, carbon dioxide, water

Special Fire fighting procedures: Use self-contained breathing apparatus and protective clothing if needed.

Unusual Fire & Explosion Hazard: None

6 ACCIDENTAL RELEASE MEASURES

Absorb with suitable medium and place in sound container. Rinse remaining residue with water.

7 HANDLING AND STORAGE

Handling Precautions: Corrosive material. Can cause burns which may not be immediately painful or visible. Handle all containers carefully.
Storage Requirements: Corrosive material. Can cause burns which may not be immediately painful or visible. Handle all containers carefully. Keep out of reach of children.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ventilation Requirement: Local exhaust
Protective Equipment: HMIS PP, B | Goggles, Gloves
Respiratory Protection: Proper ventilation to keep vapor concentration below TLV of components.
Protective gloves: Neoprene Gauntlet Type
Eye protection: Safety goggles with plastic lenses
Exposure Guidelines/Other: Hygienic work practices: Wash with soap and water before handling food.



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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Reddish purple liquid	Boiling Point:	NA
Physical State:	Liquid	Freezing/Melting Pt.:	NA
Odor:	Acid	Solubility:	Complete
pH:	< 1.5	Spec Grav./Density:	(H2O=1): 1.05 +/- 0.05
Vapor Pressure:	ND		
Vapor Density:	(Air=1): ND		
Heat Value:	NA		
VOC:	NA		
Evap. Rate:	NA		
Bulk Density:	NA		
Octanol:	NA		
Molecular Weight:	NA		
Particle Size:	NA		
Softening Point:	NA		
Viscosity:	NA		
Percent Volatile:	NA		
Sat. Vap. Concentrat.:	NA		
Molecular Formula:	NA		

10 STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	Contact with alkaline, glass ceramic or other silica containing material.
Materials to avoid (incompatibility):	Glass, leather, concrete, certain metals, natural rubber and many organics.
Hazardous Decomposition products:	Trace levels of hydrofluoric acid gas.
Hazardous Polymerization:	Will not occur

11 TOXICOLOGICAL INFORMATION

NA

12 ECOLOGICAL INFORMATION

NA

13 DISPOSAL CONSIDERATIONS

Dispose of according to local, state, or federal regulations.



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14 TRANSPORT INFORMATION

Proper Shipping Name: Corrosive Liquids, Toxic, N.O.S. (Hydrofluoric Acid) (Phosphoric Acid), 8, UN 2922, PGII

15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Hydrofluoric acid (7664393 1-10%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TOXICRCRA, TXAIR, TXHWL

*Phosphoric acid (7664382 1-10%) CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, SARA313, TXAIR

*Ethylene glycol monobutyl ether (111762 1-10%) HAP, MASS, OSHAWAC, PA, TXAIR

REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance
CSWHS = Clean water Act Hazardous substances
EHS302 = Extremely Hazardous Substance
EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
NJEHS = NJ Extraordinarily Hazardous Substances
NJHS = NJ Right-to-Know Hazardous Substances
OSHA = OSHA Chemicals Requiring process safety management
OSHA = OSHA workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXAIR = TX Air Contaminants with Health Effects Screening Level
TXHWL = TX Hazardous Waste List

16 OTHER INFORMATION

We believe the statements technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. ** Chemical listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not listed [e] Animal data only
N/A = Not available N/D = Not determined

END OF MSDS DOCUMENT