

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.



Product Identity – Section I

Product Name: Stainless Steel Etch #12 CAS #: See Below Manufacturer: Arcal Chemicals, Inc. Address: 223 Westhampton Avenue Capitol Heights, MD 20747	Emergency Tele: 1-800-424-9300 Other Tele: 301-336-9300 Fax: 301-336-6597
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HAZARDOUS INGREDIENTS / OTHER COMPONENTS – SECTION II

MATERIAL / CAS #	ACGIH (TLV – TWA)	OSHA (PEL -TWA)
Inorganic flouride CAS#1341-49-7	5.5 mg/m ³	5.5 mg/m ³
All other ingredients propriety and not considered hazardous		

PHYSICAL DATA – SECTION III

APPEARANCE Yellow liquid	ODOR Acidic	MELT POINT NA	SPECIFIC GRAVITY 1.17
VAPOR DENSITY NA	% VOLATILE BY VOLUME 99%	BULK DENSITY 9.75 LB/GAL	BOILING POINT 212°F
VAPOR PRESSURE NA	% SOLUBILITY (H2O) Complete	PH of 1% Solution (2-2.5)	

FIRE AND EXPLOSION HAZARD DATA – SECTION IV

FLASH POINT None	NFPA FIRE HAZARDS <table border="1"> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>REACTIVITY</td> <td>1</td> </tr> <tr> <td>SPECIFIC</td> <td></td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	1	SPECIFIC	
HEALTH		2							
FLAMMABILITY		0							
REACTIVITY		1							
SPECIFIC									
FLAMMABLE LIMITS LEL NA UEL NA									
EXTINGUISHING MEDIA NA									
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus.									

UNUSUAL FIRE AND EXPLOSION HAZARDS: DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: May liberate hydrogen fluoride and/or oxides of nitrogen. EMPTY CONTAINER WARNING: Acid vapors and fluorides are hazardous.	4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT
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