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: Weld-O	Emergency Tele: 1-800-424-9300
CAS #: See Below	Revision Date: January 2001
Manufacturer: Arcal Chemicals, Inc.	Other Tele: 301-336-9300
Address: 223 Westhampton Avenue Capitol Heights, MD 20747	Fax: 301-336-6597

HAZARDOUS INGREDIENTS / OTHER COMPONENTS – SECTION II

MATERIAL / CAS #		ACGIH (TLV – TWA)	OSHA (PEL -TWA)
Hydrofluoric Acid	7664-39-3	3 ppm	3 ppm
Nitric Acid	7697-37-2	2 ppm	2 ppm
Diacetone Alcohol	123-42-2	50 ppm	50 ppm

PHYSICAL DATA – SECTION III

APPEARANCE Pink liquid	ODOR Acidic	MELT POINT NA	SPECIFIC GRAVITY 1.01
VAPOR DENSITY Greater than air	% VOLATILE BY VOLUME 99%	BULK DENSITY 8.3 #/GAL	BOILING POINT 212°F
VAPOR PRESSURE Approx. 20 mm Hg at 72°F	% SOLUBILITY (H20) Complete		

FIRE AND EXPLOSION HAZARD DATA – SECTION IV

FLASH POINT None

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.

NFPA FIRE HAZARDS

HEALTH	4
FLAMMABILITY	0
REACTIVITY	1
SPECIFIC	

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

REACTIVITY DATA – SECTION V

Stability: Stable CONDITIONS TO AVOID: Strong alkalis.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong Alkalis

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen fluoride gas, oxides of nitrogen.

HAZARDOUS POLYMERZATION: Will not occur. CONDITIONS TO AVOID: Strong alkalis.

HEALTH HAZRD DATA – SECTION VI

Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic): May cause severe skin burns with ulceration. Removes calcium from tissues.

CARCINOGENICITY: NO NTP? NA IARC Monographs? NA OSHA? NA

MEDICAL CONDITIONS
GENERALLY AGGRAVATED by EXPOSURE: Various types of dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with clear water for 15 minutes with large amounts of flowing water. If sterile 1% calcium gluconate solution is available, washing may be limited to 5 minutes, after which the 1% calcium gluconate solution should be used repeatedly to irrigate.

SKIN CONTACT: Remove any contaminated clothing and flush with plenty of cool water; speed in washing off acid is of primary importance. If 0.13% bensalkonium chloride solution or 2.5% calcium gluconate gel is available, the water rinse may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped.

INHALATION: If overcome from inhalation, remove patient from exposure and seek medical attention.

INGESTION: Have the victim drink large amounts of water as quickly as possible to dilute the acid. Do not induce vomiting. Do not give emetics or baking soda.

PRECAUTIONS FOR SAFE HANDLING AND USE – SECTION VII

Steps to be taken in case material is released or spilled: Contain the spill. Collect the material into a plastic container. The affected area can be neutralized with a solution of Sodium Hydroxide.

Waste Disposal Method: All federal, state and local regulations must be followed. This product may be neutralized with a solution of Sodium Hydroxide.

Precautions to be taken in handling and storing: Rubber gloves, goggles and other protective gear should be used in handling. Store in heavy-duty plastic containers.

CONTROL MEASURES – SECTION VIII

Respiratory or breathing apparatus:: Should be used in closed areas lacking sufficient ventilation.

Ventilation: Yes Local Exhaust: Yes Mechanical: Special: Other:

Protective Gloves: Yes Eye Protection: Yes

Other Protective Clothing or Equipment: Plastic aprons.

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Hydrofluoric acid soln. HAZARDOUS CLASS: 8 ID NUMBER: UN1790 PG: II