

**VALCO CINCINNATI CONSUMER PRODUCTS INC.****MATERIAL SAFETY DATA SHEET****MATERIAL NAME:** METAL PREP PART NUMBERS 710XX610, 710XX648, 710XX748, 710XX669**PART NUMBERS (KITS):** 710XX376, 710XX608**PART NUMBERS (DISPLAYS):** 710XX422, 710XX423, 710XX805, 710XX806**EMERGENCY TELEPHONE NO.:** CALL INFOTRAC AT 1-800-535-5053**PRODUCT INFORMATION NO.:** (513) 874-6550**DATE ISSUED:** AUGUST 2009**SECTION I – GENERAL INFORMATION****MANUFACTURER'S NAME:** VALCO CINCINNATI, INCORPORATED**ADDRESS:** 411 CIRCLE FREEWAY DRIVE, CINCINNATI, OHIO 45246**TRADE NAMES & SYNONYMS:** ALUMINUM PREP/CLEANER**MSDS NUMBER:** 662**REVISION:** 0**NPCA RATING:****TOXICITY:** 2**FIRE:** 0**REACTIVITY:** 0**SPECIAL:** H**HAZARD:** WARNING MAY CAUSE BURNS WHICH ARE NOT PAINFUL OR VISIBLE IMMEDIATELY**DOT HAZARD CLASSIFICATION:** UN/NA: 1790**PROPER SHIPPING NAME:** COMPOUND CLEANING LIQUID (CONTAINS HYDROFLUORIC ACID, SULFURIC ACID.)**V.O.C.:** N/A**CLASSIFICATION:** CORROSIVE**PHOTOCHEMICALLY REACTIVE?:** NO**DOT RQ:** HYDROFLUORIC ACID-100 POUNDS, SULFURIC ACID-1000 POUNDS**SHELF LIFE:** 3 YEARS**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION****HAZARDOUS COMPONENTS****(SPECIFIC CHEMICAL IDENTITY - COMMON NAME(S)):**

	CAS NUMBER	OSHA PEL	ACGIH TLV	PERCENT OTHER LIMITS
SULFURIC ACID	7664-93-9	1MG/M3	TWA 1 MG/M3	.79 NONE
HYDROFLUORIC ACID (HYDROGEN FLUORIDE)	7664-93-9	3 PPM (AS F) OR 2.5 MG/M3 (AS F)	TWA 1 MG/M3	.95 STEL 6 PPM

**CARCINOGENIC INGREDIENTS/OSHA/NTP/IARC:** NONE KNOWN **NTP:** NO **IARC MONOGRAPHS:** NO **OSHA REGULATED:** NO

	ORAL	DERMAL	INHALATION
HYDROFLUORIC ACID	LD50 ND	ND	LD50 (RAT)=1276 PPM/1H
SULFURIC ACID	LD50 (RAT)=2140 MG/KG	ND	LC50(GUINEA PIG)=8 MG/M3

**STABILITY:** STABLE **CONDITIONS TO AVOID:** NONE KNOWN**INCOMPATIBILITY ( MATERIALS TO AVOID):** REACTION WITH CYANIDES, SULFIDES, AND METALS.**HAZARDOUS DECOMPOSITION PRODUCTS:** CONTACT WITH METAL MAY RELEASE HYDROGEN SULFIDE AND FLAMMABLE HYDROGEN GAS.**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR**CONDITIONS TO AVOID:** NONE KNOWN**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS****BOILING POINT:** APPROX 212°F**SPECIFIC GRAVITY (H2O=1):** 1.009**MELTING POINT:** 32°**VAPOR PRESSURE(MM HG. @ 68°F):** APPROX. 17.5**VAPOR DENSITY (AIR = 1):** LESS THAN 1**EVAPORATION RATE ( BUTYL ACETATE=1) =**1**APPEARANCE AND ODOR:** CLEAR LIGHT PINK LIQUID, SLIGHT ODOR**REACTIVITY IN WATER:** NONE**PH: @ 77°F:** 3.0-4.0**PERCENT VOLATILE:** NIL**SOLUBILITY IN WATER:** INCOMPLETE**SECTION IV – FIRE AND EXPLOSION HAZARD DATA****FLASH POINT (METHOD USED ): NONE TO BOILING POINT (TCC)****FLAMMABLE LIMITS :** N/A **LEL:** N/A **UEL:** N/A**EXTINGUISHING MEDIA:** ANY APPROPRIATE MEDIUM FOR EXTINGUISHING SURROUNDING FIRE.**SPECIAL FIRE FIGHTING PROCEDURES:** USE WATER SPRAY TO COOL CONTAINERS. KEEP UPWIND. WEAR FULL PROTECTIVE CLOTHING AND SELF- CONTAINED BREATHING APPARATUS.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** PRODUCT CAN PRODUCE HYDROGEN GAS BY REACTING WITH METALS. HYDROGEN IS EXPLOSIVE AND/OR FLAMMABLE.

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**SECTION VI – HEALTH HAZARD DATA**

**ROUTES OF ENTRY:** EYES, SKIN, INGESTION, INHALATION

**HEALTH HAZARDS(ACUTE AND CHRONIC):**

**EYE:** DIRECT CONTACT WILL CAUSE SEVERE IRRITATION OR DAMAGE TO THE EYES. IF NOT RAPIDLY REMOVED BY THOROUGH IRRIGATION WITH WATER, THERE MAY BE PROLONGED OR PERMANENT VISUAL DEFECTS OF THE EYES.

**SKIN:** CAUSES BURNS WHICH MAY NOT BE PAINFUL OR VISIBLE FOR SEVERAL HOURS. WEARING CLOTHING THAT IS CONTAMINATED WITH H.F. MAY RESULT IN DELAYED EFFECTS. H.F. CAN PENETRATE INTACT SKIN AND CAUSE BURNS UNLESS PROMPTLY REMOVED.

**INHALATION:** INHALING MISTS OR SPRAYS MAY DAMAGE RESPIRATORY SYSTEM.

**INGESTION:** SWALLOWING WILL CAUSE IRRITATION TO THE MOUTH, THROAT, AND DIGESTIVE TRACT.

**HEALTH HAZARDS(CHRONIC):** CHRONIC FLUORIDE POISONING

**SIGNS AND SYMPTOMS OF EXPOSURE:**

**EYES:** INTENSE STINGING AND BURNING SENSATION.

**SKIN:** SMARTING, BURNING SENSATION, INFLAMMATION AND POSSIBLE WHITENING OF SKIN.

**INGESTION:** IRRITATION AND BURNING SENSATION OF LIPS, MOUTH AND THROAT. PAIN IN SWALLOWING, THIRST, STOMACH CRAMPS.

**INHALATION:** WATERING EYES, NASAL DISCHARGE, SNEEZING AND COUGHING. DIFFICULTY IN BREATHING, HEADACHE. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE CURRENTLY KNOWN.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** FLUSH IMMEDIATELY WITH LARGE VOLUMES OF WATER FOR 15 MINUTES, HOLDING EYELIDS APART. CALL A PHYSICIAN IMMEDIATELY

**SKIN:** FLUSH WITH LARGE AMOUNTS OF WATER IN CASE OF CONTACT OR SUSPECTED CONTACT. REMOVE ANY CONTAMINATED CLOTHING OR SHOES. GIVE ATTENTION PARTICULARLY AROUND AND UNDER NAILS AND SKIN FOLDS. TREAT ALL EXPOSURES WITH ICED SOLUTIONS OF BENZALKONIUM CHLORIDE IN A 0.2% SOLUTION AS A SOAK OR A COMPRESS FOR 4 HOURS. SEE A PHYSICIAN.

**INGESTION:** DO NOT INDUCE VOMITING. IMMEDIATELY DRINK TWO 8-OUNCE GLASSES OF WATER. CALL A PHYSICIAN.

**INHALATION:** IMMEDIATELY REMOVE TO FRESH AIR. CALL PHYSICIAN. KEEP THE PATIENT WARM.

**SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE AND CONTROL MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED :** STAY UPWIND OF ANY SPILL. WEAR PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS, RUBBER GLOVES, RUBBER APRON, CHEMICAL GOGGLES, AND PROPER RESPIRATORY PROTECTION. ALL HYDROFLUORIC ACID LEAKS AND SPILLS SHOULD BE CONTAINED PROMPTLY AND RUN TO SEWERS OR WATER COURSES AVOIDED. CONTAIN BY DIKING WITH SOIL OR OTHER ABSORBENT MATERIAL. NEUTRALIZE WITH LIME OR LIMESTONE, THEN DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL LAWS, FEDERAL, STATE AND LOCAL.

**WASTE DISPOSAL:** DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS

**VENTILATION TYPE REQUIRED( LOCAL, MECHANICAL, SPECIAL):** USE WITH VENTILATION ADEQUATE TO MAINTAIN ON PEL.

**LOCAL EXHAUST:** AT POINT OF SOURCE IF NECESSARY.

**MECHANICAL(GENERAL):** TO MAINTAIN EXPOSURE LIMITS.

**SPECIAL:**N/A **OTHER:** NONE

**RESPIRATORY PROTECTION(SPECIFY TYPE):** USE OSHA PERMISSIBLE GAS MASK FOR ACID GASES IF PEL IS EXCEEDED.

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**SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE AND CONTROL MEASURES (CONT)**

**SKIN PROTECTION:** ALWAYS USE PVC OR NEOPRENE GAUNTLET GLOVES

**EYE PROTECTION:** CHEMICAL SPLASH GOGGLES

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** PVC OR NEOPRENE FOOTWEAR, LONG SLEEVE COVERALLS, HARD HAT WITH BRIM. IF DIRECT CONTACT POSSIBLE, WEAR FULL CHEMICAL-PROOF SUIT WITH HOOD.

**WORK/HYGIENIC PRACTICES:** THE RECOMMENDATIONS DESCRIBED IN THIS MSDS ARE PROVIDED AS GENERAL GUIDANCE FOR MINIMIZING EXPOSURE WHEN HANDLING THIS PRODUCT. BECAUSE USE CONDITIONS WILL VARY DEPENDING UPON CUSTOMER APPLICATIONS, SPECIFIC SAFE HANDLING PROCEDURES SHOULD BE DEVELOPED BY PERSONS KNOWLEDGEABLE OF THE INTENDED USE CONDITIONS AND EQUIPMENT.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** DO NOT GET IN EYES, ON SKIN, OR CLOTHING OR BREATHE VAPOR. KEEP CONTAINER CLOSED WHEN NOT IN USE. WASH THOROUGHLY AFTER USE. MOST PROBLEMS BECOME VISIBLE AFTER SEVERAL HOURS TO 24 HOURS.

**OTHER PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

**SECTION VIII – DISCLAIMER**

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE; OBTAINED FROM SOURCES BELIEVED BY VALCO CINCINNATI, INC. TO BE ACCURATE. SINCE THE CONDITIONS AND METHODS OF USE OF OUR PRODUCT ARE BEYOND OUR CONTROL, WE DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE IMPROPER USE OF THIS PRODUCT OR THE INFORMATION PROVIDED HERE WITH.