

VALCO CINCINNATI CONSUMER PRODUCTS INC.**MATERIAL SAFETY DATA SHEET****MATERIAL NAME:** METAL POLISH PART NUMBERS 710XX610, 710XX611, 710XX640, & 710XX642**PART NUMBERS (KITS):** 710XX376, 710XX419, 710XX608**PART NUMBERS (DISPLAYS):** 710XX422, 710XX423, 710XX805, 710XX806**EMERGENCY TELEPHONE NO.:** CHEM-TREC 800-424-9300**PRODUCT INFORMATION NO.:** USA & CANADA: 800-345-1178; OUTSIDE USA: 610-323-2200**DATE ISSUED:** SEPTEMBER 2006**SECTION I – GENERAL INFORMATION****DISTRIBUTED BY:** THE EASTHILL GROUP dba/ THE EASTWOOD COMPANY**ADDRESS:** 263 SHOEMAKER ROAD, POTTSTOWN, PA 19464**TRADE NAMES & SYNONYMS:** METAL POLISH**MSDS NUMBER:** 662**REVISION:** 0**DOT HAZARD CLASSIFICATION:** COMBUSTIBLE LIQUID**PROPER DOT SHIPPING NAME:** COMBUSTIBLE LIQUID**CHEMICAL FAMILY:** COMBUSTIBLE LIQUID**SHELF LIFE:** 3 YEARS**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION****HAZARDOUS COMPONENTS**

(SPECIFIC CHEMICAL IDENTITY - COMMON NAME(S)):	CAS NUMBER	ACGIH TLV	PERCENT
PETROLEUM HYDROCARBON	64742-88-7	100 PPM	43

STABILITY: STABLE **CONDITIONS TO AVOID:** SOURCES OF IGNITION**INCOMPATIBILITY (MATERIALS TO AVOID):** SOURCES OF IGNITION**HAZARDOUS DECOMPOSITION PRODUCTS:** OXIDES OF CARBON ON INCINERATION**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR **CONDITIONS TO AVOID:** N/A**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS****BOILING POINT:** APPROX 330°F**SPECIFIC GRAVITY (H₂O=1):** 0.98**MELTING POINT:** 32°F**PERCENT VOLATILE:** 77**VAPOR DENSITY (AIR = 1):** APPROX. 5**EVAPORATION RATE (BUTYL ACETATE =1)** 0.2**REACTIVITY IN WATER:** NONE**PH:** N/A**VAPOR PRESSURE(MM HG. @ 68°F):** APPROX.4**SOLUBILITY IN WATER:** INSOLUBLE**APPEARANCE AND ODOR:** CLEAR WHITE

CREAM LIQUID, SLIGHT ODOR

SECTION IV – FIRE AND EXPLOSION HAZARD DATA**FLASH POINT (METHOD USED):** SETAFLASH CLOSED TESTER 120°F**FLAMMABLE LIMITS:** LEL:1 UEL:7**EXTINGUISHING MEDIA:** FOAM, CO₂, DRY CHEMICAL, WATER SPRAY**SPECIAL FIRE FIGHTING PROCEDURES:** USE SELF CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE**UNUSUAL FIRE AND EXPLOSION HAZARDS:** VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND TO A SOURCE OF IGNITION. THIS COULD RESULT IN A FLASHBACK ALONG THE GROUND.**SECTION VI – HEALTH HAZARD DATA****ROUTES OF ENTRY:** EYES, SKIN, INGESTION, INHALATION**CARCINOGENICITY:** NONE KNOWN **NTP:** N/A**IARC MONOGRAPHS:** N/A **OSHA REGULATED:** YES**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.**SIGNS AND SYMPTOMS OF EXPOSURE:****EYES:** IRRITATION OF THE MUCOUS MEMBRANES**SKIN:** IRRITATION AND DEFATTING OF SKIN ON PROLONGED EXPOSURE**INGESTION:** MAY RESULT IN VOMITING, NAUSEA

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SECTION VI – HEALTH HAZARD DATA (CONT)

INHALATION: IRRITATION TO NOSE, THROAT AND RESPIRATORY TRACT

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. SEE A PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING. USE GASTRIC LAVAGE. CALL A PHYSICIAN.

INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF AVAILABLE. CALL PHYSICIAN.

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : SMALL SPILL USE SUITABLE ABSORBENT. DISPOSE OF AS FLAMMABLE SOLID. LARGE SPILL: REMOVE SOURCES OF IGNITION. DIKE AREA. PUMP LIQUID INTO SUITABLE TANK FOR RECOVERY OR DISPOSAL.

DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL LAWS, FEDERAL, STATE AND LOCAL WASTE REGULATIONS.

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

LOCAL EXHAUST: N/A

MECHANICAL(GENERAL): YES

SPECIAL: N/A **OTHER:** N/A

RESPIRATORY PROTECTION(SPECIFY TYPE): NOT NORMALLY NEEDED

SKIN PROTECTION: NOT NORMALLY NEEDED

EYE PROTECTION: FACE SHIELD RECOMMENDED- SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT NORMALLY NEEDED

WORK/HYGIENIC PRACTICES: PROMPTLY WASH THOROUGHLY AFTER HANDLING ALL CHEMICALS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL PLACE AWAY FROM POSSIBLE SOURCES OF IGNITION.

OTHER PRECAUTIONS: KEEP AWAY FROM OXIDIZING SUBSTANCES. KEEP CLOSURES ON CONTAINERS WHEN NOT IN USE. DISPOSAL OF EMPTY CONTAINERS: EMPTY CONTAINERS MAY CONTAIN FLAMMABLE FUMES. FLUSH WITH WATER BEFORE DISCARDING.

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.

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

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

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