

VALCO CINCINNATI CONSUMER PRODUCTS INC.
MATERIAL SAFETY DATA SHEET
MATERIAL NAME: HV-350 OUVS
PART NUMBER: 710XX154
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 NAME & SYNONYMS: UV-6800

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY - COMMON NAME(S)):

NAME	CAS NUMBER		
*TETRACHLOROETHYLENE (PERCHLOROETHYLENE)	127-18-4	13 mm Hg @ 68 TEMP.	C4 WEIGHT PERCENT: 72
OSHA PEL: TWA=100 PPM; CEILING=200 PPM ACGIH TLV: TWA=25 PPM (170 MG/M3); STEL=100 PPM (69=85 MG/M3) OTHER: 200 PPM			

INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372. PROPOSITION 65 STATEMENT: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

SHIPPING INFORMATION:

DOT CLASS: SMALL PACKAGE – CONSUMER COMMODITY ORM D – TETRACHLOROETHYLENE
MIXTURE 6.1 UN 1897 PG III

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 250°F	SPECIFIC GRAVITY (H₂O=1): 1.36
VAPOR PRESSURE (mm Hg @ 68°F): N/A	MELTING POINT: N/A
VAPOR DENSITY (AIR=1): HEAVIER THAN AIR	EVAPORATION RATE (H₂O=1): SLOWER THAN ETHER
SOLUBILITY IN WATER: NEGLIGIBLE	PERCENT VOLATILE: 7.31 LB/GL (876 G/L)

APPEARANCE AND ODOR: VISCOUS LIQUID WITH ETHER-LIKE ODOR

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NONE
FLAMMABLE LIMITS IN AIR BY VOLUME: NONE
EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL, WATER FOG
SPECIAL FIRE FIGHTING PROCEDURES: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.
UNUSUAL FIRE AND EXPLOSION HAZARDS: PRODUCT IS NONFLAMMABLE AND NONEXPLOSIVE UNDER NORMAL CONDITIONS OF USE. AT HIGH TEMPERATURES, PRODUCT DECOMPOSES TO GIVE OFF HYDROCHLORIC ACID AS A GAS, PLUS OTHER TOXIC AND IRRITATING VAPORS SUCH AS PHOSGENE AND CHLORINE. IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, OVER PRESSURIZATION CAN RESULT IN CONTAINER RUPTURES.

SECTION V – REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS. AVOID MIXING WITH CAUSTIC SODA OR POTASH.
HAZARDOUS DECOMPOSITION PRODUCTS OR BY-PRODUCTS: TOXIC/IRRITATING GASES AND FUMES. MAY BE HCL, PHOSGENE, CO₂, SIMPLE HYDROCARBONS.
CONDITIONS TO AVOID: EXTREME HEAT, FLAME OR SPARKS
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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SECTION VI – HEALTH HAZARD DATA

ROUTES OF ENTRY: EYES, SKIN, INGESTION, INHALATION
CARCINOGENICITY: NTP?: YES OSHA REGULATED: NO

INHALATION: DIZZINESS MAY OCCUR AT 200 PPM. PROGRESSIVELY HIGH LEVELS CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT, DRUNK-ENNESS, NAUSEA, UNCONSCIOUSNESS, AND EVEN ASPHYXIATION IN CONFINED, POORLY VENTILATED AREAS. OVEREXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.
EYE: PRODUCT IN EYES CAN RESULT IN DISCOMFORT, PAIN AND IRRITATION. VAPORS MAY IRRITATE EYES AT ABOUT 100 PPM.
SKIN: IRRITATION CAN DEVELOP FOLLOWING REPEATED AND/OR PROLONGED CONTACT AND MAY CAUSE DRYING OR FLAKING OF SKIN.
INGESTION: SINGLE DOSE ORAL TOXICITY IS LOW. INGESTION MAY RESULT IN IRRITATION OF THE MOUTH AND GASTROINTESTINAL TRACT ALONG WITH OTHER EFFECTS AS LISTED ABOVE FOR INHALATION. VOMITING AND SUBSEQUENT ASPIRATION INTO THE LUNGS MAY LEAD TO INJURY OF THE BODY SYSTEMS.

HEALTH HAZARDS (ACUTE AND CHRONIC): PRODUCT HAS BEEN SHOWN TO INCREASE RATE OF SPONTANEOUSLY OCCURRING MALIGNANT TUMORS IN CERTAIN LAB RATS AND MICE. OTHER LONG TERM STUDIES IN RATS FAILED TO SHOW TUMORIGENIC RESPONSE. HERPETOLOGY STUDIES ARE LIMITED AND HAVE NOT ESTABLISHED AN ASSOCIATION BETWEEN TETRACHLOROETHYLENE EXPOSURE AND CANCER. DID NOT CAUSE BIRTH DEFECTS IN ANIMALS. BIRTH DEFECTS UNLIKELY. PROLONGED ABOVE OSHA PERMISSIBLE LIMITS MAY RESULT IN LIVER AND KIDNEY DAMAGE.

CARCINOGENICITY: TETRACHLOROETHYLENE IS LISTED AS A POTENTIAL CARCINOGENIC BY IARC AND NTP. RESULTS OF IN VITRO MUTAGENICITY TEST HAVE BEEN NEGATIVE. PRUDENT HANDLING PRACTICES SHOULD BE FOLLOWED TO MINIMIZE HUMAN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING EYE, SKIN, AND LUNG CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS OR DEVELOPS.
SKIN: WIPE FROM SKIN AND WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS SEEK MEDICAL ATTENTION.
INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN. GIVE 1 OR 2 GLASSES OF WATER TO DRINK.
INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING.

* THIS PRODUCT CONTAINS A CHEMICAL KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILLS: WIPE UP OR SOAK UP IMMEDIATELY WITH INERT MATERIAL. REMOVE TO OUTDOORS.

LARGE SPILLS: EVACUATE AREA, CONTAIN LIQUID. TRANSFER TO CLOSED METAL CONTAINERS, KEEP OUT OF WATER SUPPLY.

WASTE DISPOSAL METHOD: RECLAIM OR INCINERATE THE NON-HARDENED MATERIAL. MATERIAL RESULTING FROM CLEAN-UP OPERATIONS MAY BE HAZARDOUS WASTE AND THEREFORE SUBJECT TO SPECIFIC REGULATIONS. DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: IN LARGE QUANTITIES, LETHAL CONCENTRATIONS MAY EXIST IN AREAS WITH POOR VENTILATION. DO NOT USE IN POORLY VENTILATED OR CONFINED SPACES WITHOUT PROPER RESPIRATORY PROTECTION. VAPORS WILL COLLECT IN LOW PLACES SUCH AS PITS, STORAGE TANKS AND OTHER CONFINED SPACES; DO NOT ENTER THESE AREAS UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT.

OTHER PRECAUTIONS : NOTE TO PHYSICIAN – BECAUSE OF RAPID ABSORPTION MAY OCCUR THROUGH LUNGS IF ASPIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION WHETHER OR NOT TO INDUCE VOMITING SHOULD BE MADE BY A PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. DO NOT ADMINISTER SYMPATHOMIMETIC DRUG. NO SPECIFIC ANTIDOTES. SUPPORTIVE CARE. TREAT-MENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION:

- I. IF VENTILATION IS INADEQUATE TO MAINTAIN ATMOSPHERIC LEVELS BELOW THE TLV, WEAR A NIOSH APPROVED AIR-PURIFYING ORGANIC CARTRIDGE RESPIRATOR.
- II. FOR EMERGENCY AND OVER EXPOSURE, USE AN APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.
- III. IN CONFINED OR POORLY VENTILATED AREAS, USE AN APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION: SUFFICIENT TO KEEP PEL FROM BEING EXCEEDED. USE ONLY WITH ADEQUATE VENTILATION.

LOCAL EXHAUST: IF NEEDED TO KEEP MATERIAL BELOW PEL.

PROTECTIVE GLOVES: GLOVES ARE RECOMMENDED.

EYE PROTECTION: SPLASH-PROOF GOGGLES. ONLY REQUIRED IF HANDLING POSES A RISK OF EYE CONTACT DO NOT ALLOW EYE OR SKIN CONTACT. AVOID BREATHING VAPORS. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

SECTION X – 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 HEREWITH.