

VALCO CINCINNATI CONSUMER PRODUCTS INC.**MATERIAL SAFETY DATA SHEET****MATERIAL NAME:** HV-350 NON-SLUMP 710XX153, 710XX155, 710XX156**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 NAME & SYNONYMS:** HV-350 NON-SLUMP**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION****HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY - COMMON NAME(S)):**

NAME	CAS NUMBER		
*TETRACHLOROETHYLENE	127-18-4	13 mm Hg @ 68 TEMP.	C4 WEIGHT PERCENT 65%
OSHA PEL: 25 PPM			
ACGIH TLV: 50 PPM			
OTHER: 200 PPM			

INDICATES CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372

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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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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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. TREATMENT 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.