

VALCO CINCINNATI CONSUMER PRODUCTS INC.
MATERIAL SAFETY DATA SHEET

MATERIAL NAME: VALCO SOLVENT 184, PART NUMBER 710XX265
EMERGENCY TELEPHONE NO.: CALL INFOTRAC AT 1-800-535-5053
PRODUCT INFORMATION NO.: (513) 874-6550
DATE ISSUED

SECTION I – GENERAL INFORMATION

MANUFACTURER'S NAME: VALCO CINCINNATI, INCORPORATED
ADDRESS: 411 CIRCLE FREEWAY DRIVE, CINCINNATI, OHIO 45246
TRADE NAMES & SYNONYMS: SOLVENT 184, TRICHLOROETHYLENE SOLVENT
MSDS NUMBER: DZ40174
SHELF LIFE: 3 YEARS

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS(SPECIFIC CHEMICAL IDENTITY-COMMON NAME(S)): TRICHLOROETHYLENE 99%, 50 PPM TWA
CAS NUMBER: #000079-01-6

**THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).
IN ADDITION, OTHER SUBSTANCES NOT "HAZARDOUS" PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETARY INGREDIENTS SHOWS,
THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD.**

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 189° F (87°C) **SPECIFIC GRAVITY (H₂O=1):** 1.46 @ 77° F
MELTING POINT: NOT APPLICABLE **VAPOR PRESSURE:** (MM HG. @ 68°F): 60
VAPOR DENSITY (AIR = 1): 4.53 **SOLUBILITY IN WATER:** 0.1G/100G @ 77° C
APPEARANCE AND ODOR: COLORLESS LIQUID, IRRITATING ODOR AT HIGH CONCENTRATIONS

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NONE (TCC)
FLAMMABLE LIMITS: LFL: 8% @ 212°F, 8.0% @ 77° F UFL: 44.8% @ 212°F
EXTINGUISHING MEDIA: WATER FOG
SPECIAL FIRE FIGHTING PROCEDURES: WEAR A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: STRONG UNPLEASANT ODOR. AUTOIGNITION TEMPERATURE IS 788°F, 420° C

SECTION V – REACTIVITY DATA

STABILITY: (CONDITIONS TO AVOID): AVOID OPEN FLAMES, WELDING ARCS, OR OTHER HIGH-TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION TO IRRITATING AND CORROSIVE HCl FROM SOLVENT VAPOR. HIGH-ENERGY SOURCES SUCH AS WELDING ARCS CAN CAUSE DEGRADATION GENERATING CHLORINE, HYDROGEN CHLORINE AND POSSIBLY PHOSGENE AND SHOULD BE AVOIDED.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG BASES: CAUSTIC POTASH. METALLIC ALUMINUM AND ZINC POWDERS SHOULD BE AVOIDED.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION: INVOLVEMENT IN FIRE OR HIGH TEMPERATURES FORMS HYDROGEN CHLORIDE AND VERY SMALL AMOUNTS OF PHOSGENE AND CHLORINE. SOLVENT DECOMPOSITION OCCURS WHEN CATALYZED BY METAL CHLORIDES WHICH CAN BE PRODUCED BY REACTION OF HCl AND METALS IN THE SYSTEM. IN THE PRESENCE OF ALUMINUM AND EXCESSIVE WATER THE DECOMPOSITION CAN PROCEED RAPIDLY WITH PRODUCTION OF LARGE AMOUNTS OF HEAT AND HCl FUMES. CONTAMINATION OF SOLVENT WITH SMALL AMOUNTS OF 1,1,1-TRICHLOROETHANE CAN AFFECT STABILIZERS AND SHORTEN SOLVENT LIFE.

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**SECTION VI – PRECAUTIONS FOR SAFE HANDLING AND USE, ACCIDENTAL RELEASE MEASURES,
DISPOSAL, AND TRANSPORT**

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

SMALL SPILL: MOP UP, WIPE UP, OR SOAK UP IMMEDIATELY. REMOVE TO OUT OF DOORS.

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

WASTE DISPOSAL METHOD: WHEN DISPOSING OF THE UNUSED CONTENTS, THE PREFERRED OPTIONS ARE TO SEND TO LICENSED RECLAIMERS, OR TO PERMITTED INCINERATORS. ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH EQUIPMENT RECOMMENDATIONS. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS AT TIME OF DISPOSAL. DO NOT DUMP INTO SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: HANDLE WITH REASONABLE CARE. AVOID BREATHING VAPORS. STORE IN COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBERVER IS PRESENT FOR ASISTANCE.

SECTION VII – CONTROL MEASURES

EXPOSURE GUIDELINES(S): THE ACGIH TLV AND OSHA PEL ARE 50 PPM TWA; 200 PPM STEL FOR TRICHLOROETHYENE.

RESPIRATORY PROTECTION(SPECIFY TYPE): ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE. WHEN RESPIRATORY PROTECTION IS REQUIRED FOR CERTAIN OPERATIONS, USE AN APPROVED AIR-PURIFYING RESPIRATOR. FOR EMERGENCY AND OTHER CONDITIONS WHERE THE EXPOSURE GUIDELINE MAY BE GREATLY EXCEEDED, USE AN APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. IN CONFINED OR POORLY VENTILATED AREAS, USE AN APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION: CONTROL AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE GUIDELINE. USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS. LETHAL CONCENTRATIONS MAY EXIST IN AREAS WITH POOR VENTILATION.

SKIN PROTECTION: FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN, BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE GLOVES, BOOTS, APRON, OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

EYE PROTECTION: USE SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT NORMALLY NEEDED

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

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.