

VALCO CINCINNATI CONSUMER PRODUCTS INC.
MATERIAL SAFETY DATA SHEET
MATERIAL NAME: SOLVENT 200
PART NUMBER(S): 710XX413, 710XX417
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
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 3 REACTIVITY (NFPA): 0
DOT: PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (SEE SECTION VIII)
HAZARD TECHNICAL NAME: HEXAMETHYLDISILOXANE/OCTAMETHYLTRISILOXANE
HAZARD CLASS: 3 UN NUMBER: 1993 PACKING GROUP: II
SHELF LIFE: 2 YEARS

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>CAS NUMBER</u>	<u>WT%</u>	<u>COMPONENT NAME</u>
107-46-0	>60.0	HEXAMETHYLDISILOXANE (HMDS)
107-51-7	30.0-60.0	OCTAMETHYLTRISILOXANE
127-38-9	3.0-7.0	CARBON DIXOIDE

THE ABOVE COMPONENTS ARE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT, 760 MM HG: NOT DETERMINED	FREEZE POINT: NOT DETERMINED
SPECIFIC GRAVITY @ 25°C: 0.78	VAPOR PRESSURE @ 25°C: NOT DETERMINED
VAPOR DENSITY (AIR = 1): NOT DETERMINED	SOLUBILITY IN WATER: NOT DETERMINED
VOLATILE CONTENT: NOT DETERMINED	EVAPORATION RATE BUTYL ACETATE =1: N/A
FLASH POINT: 26.6°F / -3°C (CLOSED CUP)	pH (NEAT): N/A
APPEARANCE AND ODOR: COLORLESS, SLIGHT ODOR	
VISCOSITY: NOT DETERMINED	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP): 26.60°F/-3.00°C
AUTOIGNITION TEMPERATURE: 662°F / 350°C
FLAMMABILITY LIMITS IN AIR: LOWER LIMIT: 0.9% UPPER LIMIT: 13.8%
EXTINGUISHING MEDIA: ON LARGE FIRES USE MEDIUM EXPANSION (>30:1) AFFF ALCOHOL COMPATIBLE FOAM OR WATER SPRAY. ON SMALL FIRES USE MEDIUM EXPANSION (>30:1) AFFF ALCOHOL COMPATIBLE FOAM, CO₂ OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.
FIRE FIGHTING MEASURES: SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING LARGE FIRES INVOLVING CHEMICALS. DETERMINE THE NEED TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.
UNUSUAL FIRE HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. STATIC ELECTRICITY WILL ACCUMULATE AND MAY IGNITE VAPORS. PREVENT A POSSIBLE FIRE HAZARD BY BONDING AND GROUNDING INERT GAS PURGE. FIRE BURNS MORE VIGOROUSLY THAN WOULD BE EXPECTED.
GENERAL VENTILATION: RECOMMENDED

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SECTION V – REACTIVITY DATA

INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR **CHEMICAL STABILITY:** STABLE
STORAGE PRECAUTIONS: USE WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED.

TOXICOLOGICAL INFORMATION:

ACUTE TOXICOLOGY DATA FOR PRODUCT: COMPLETE INFORMATION IS NOT YET AVAILABLE.
COMPONENT TOXICOLOGY INFORMATION: NO KNOWN APPLICABLE INFORMATION.
SPECIAL HAZARD INFORMATION ON COMPONENTS: NO KNOWN APPLICABLE INFORMATION.
TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: ALL CHEMICAL SUBSTANCES IN THIS MATERIAL ARE INCLUDED ON OR EXEMPTED FROM LISTING ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.
EPA SARA TITLE III CHEMICAL LISTINGS: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE;
SECTION 304 CERCLA HAZARDOUS SUBSTANCES: NONE.

SECTION VI – HEALTH HAZARD DATA

ROUTES OF ENTRY: EYES, SKIN, INHALATION, INGESTION

EYES: DIRECT CONTACT MAY CAUSE MILD IRRITATION.

SKIN: NO SIGNIFICANT IRRITATION EXPECTED FROM A SINGLE SHORT-TERM EXPOSURE. REPEATED OR PROLONGED CONTACT MAY CAUSE DEFATTING AND DRYING OF SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS. REPEATED OR PROLONGED EXPOSURE MAY CAUSE IRRITATION.

INHALATION: IRRITATES RESPIRATORY PASSAGES VERY SLIGHTLY. VAPOR OVEREXPOSURE MAY CAUSE DROWSINESS. GAS MAY SUFFOCATE BY REDUCING THE AMOUNT OF AIR (OXYGEN) AVAILABLE FOR BREATHING.

INGESTION: OVEREXPOSURE BY INGESTION MAY CAUSE DROWSINESS, DIZZINESS, CONFUSION OR LOSS OF COORDINATION. REPEATED INGESTION OR SWALLOWING LARGE AMOUNTS MAY INJURE INTERNALLY.

FIRST AID MEASURES:

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES.

SKIN: REMOVE FROM SKIN AND WASH THOROUGHLY WITH SOAP AND WATER OR WATERLESS CLEANSER. GET MEDICAL ATTENTION IF IRRITATION OR OTHER ILL EFFECTS DEVELOP OR PERSIST.

INHALATION: REMOVE TO FRESH AIR. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: GET IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN: TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING:

EYES: SAFETY GLASSES REQUIRED

SKIN: WASH AT MEALTIME AND END OF SHIFT. CONTAMINATED CLOTHING AND SHOES SHOULD BE REMOVED AS SOON AS PRACTICAL AND THOROUGHLY CLEANED BEFORE REUSE. CHEMICAL PROTECTIVE GLOVES ARE RECOMMENDED.

INHALATION: USE RESPIRATORY PROTECTION UNLESS ADEQUATE EXHAUST VENTILATION IS PROVIDED .

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE POSSIBLE IGNITION SOURCES. DETERMINE WHETHER TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. OBSERVE ALL PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS DESCRIBED. FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED MATERIAL IN APPROPRIATE CONTAINER. CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBANT. DISPOSE OF SATURATED ABSORBANT OR CLEANING MATERIALS APPROPRIATELY, SINCE SPONTANEOUS HEATING MAY OCCUR.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS AT TIME OF DISPOSAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM FOODSTUFFS. WASH THOROUGHLY AFTER USE. DO NOT EAT, DRINK, OR SMOKE WHILE USING. SAFETY SHOWER, EYE BATH, AND WASHING FACILITIES SHOULD BE AVAILABLE. USE WITH ADEQUATE VENTILATION. AVOID EYE CONTACT. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT TAKE INTERNALLY. STATIC ELECTRICITY WILL ACCUMULATE AND IGNITE VAPORS.

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SECTION VIII – TRANSPORTATION INFORMATION

DOT ROAD SHIPMENT INFORMATION (49 CFR 172.101)
PROPER SHIPPING NAME: CONSUMER COMMODITY
HAZARD CLASS: ORM
HAZARD LABEL(S): ORM-D (OTHER REGULATED MATERIALS)

OCEAN SHIPMENT (IMDG)
PROPER SHIPPING NAME: AEROSOLS
HAZARD CLASS: 2.1
UN NUMBER: 1950
NOTE: WHEN MATERIAL IS SHIPPED AS A LIMITED QUANTITY THE CLASS IS 2.

AIR SHIPMENT (IATA)
PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE
HAZARD CLASS: 2.1 FLAMMABLE GAS
UN NUMBER: 1950

SECTION IX – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION:

AIR: LOW MOLECULAR WEIGHT VOLATILE SILOXANES IN AIR ARE DEGRADED BY REACTION WITH HYDROXYL RADICALS, WHICH IS THE DOMINANT DEGRADATION PROCESS FOR MOST CHEMICALS IN THE ATMOSPHERE.

WATER: LOW MOLECULAR WEIGHT VOLATILE SILOXANES HAVE VERY LOW WATER SOLUBILITY AND EVAPORATE TO AIR.

SOIL: LOW MOLECULAR WEIGHT VOLATILE SILOXANES IN SOIL ARE REMOVED BY SEVERAL SIMULTANEOUSLY OCCURRING PROCESSES INCLUDING VOLATIZATION, HYDROLYSIS AND CLAY-CATALYZED DEGRADATION.

ENVIRONMENTAL EFFECTS:

TOXICITY TO WATER: BASED ON ANALOGY TO SIMILAR MATERIALS THIS PRODUCT IS EXPECTED TO EXHIBIT LOW TOXICITY TO AQUATIC ORGANISMS. THIS PRODUCT IS VOLATILE AND HAS A VERY SHORT HALF LIFE IN THE AQUATIC ENVIRONMENT AND THEREFORE DOES NOT PRESENT A RISK TO AQUATIC ORGANISMS.

TOXICITY TO SOIL ORGANISMS: DUT TO ITS VOLATILITY, THIS PRODUCT IS UNLIKELY TO BE FOUND IN THE TERRESTRIAL COMPARTMENT.

BIOACCUMULATION: LOW MOLECULAR WEIGHT VOLATILE SILOXANES BIOCONCENTRATE IN FISH EXPOSED UNDER CONTROLLED LABORATORY CONDITIONS THAT ARE NOT REPRESENTATIVE OF CONDITIONS FOUND IN THE ENVIRONMENT.

FATE AND EFFECTS IN WASTE WATER TREATMENT PLANTS:

LOW MOLECULAR WEIGHT VOLATILE SILOXANES ARE EFFICIENTLY REMOVED (>90%) DURING WASTEWATER TREATMENT WITH APPROXIMATELY EQUAL AMOUNTS GOING TO THE ATMOSPHERE AND THE SLUDGE. LOW MOLECULAR WEIGHT VOLATILE SILOXANES IN TREATED WASTEWATER EFFLUENT WILL BE BOUND TO PARTICULATE MATTER BECAUSE OF VERY LOW WATER SOLUBILITY.

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 HERE WITH.