

MATERIAL SAFETY DATA SHEET

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SECTION I – PRODUCT AND COMPANY IDENTIFICATION

W.F. TAYLOR CO., INC.

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CHEMICAL EMERGENCY HOTLINE 1-800-535-5053

PRODUCT NAME: #9 C/C CLEAN-UP SOLVENT
ITEM NUMBER: 9
ITEM DESCRIPTION: #9 CLEAN-UP SOLVENT
PRODUCT DESCRIPTION: CLEANING SOLVENT
CHEMICAL FAMILY: CHLORINATED SOLVENT
REVISION DATE: 06/21/01

NFPA HAZARD RATING

LEAST:	0	HEALTH:	2
SLIGHT:	1	FLAMMABLE:	1
MODERATE:	2	REACTIVITY:	0
HIGH:	3		
EXTREME:	4		

PREPARED BY: DARWIN C. REGIS
PREEMPTS PREVIOUS MSDS SHEETS

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENT/CAS#</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>% WT</u>	<u>NOTES</u>
TRICHLOROETHYLENE 000079-01-6	50 PPM (TWA)	50 PPM (TWA)	100	SARA Rep.

SECTION III – HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

TOXIC FUMES ARE RELEASED IN FIRE SITUATIONS. HARMFUL IF INHALED. CAN CAUSE DEATH IF TOO MUCH IS BREATHED. CLEAR ALL PERSONNEL FROM SPILL AREA. WEAR FULL PROTECTIVE EQUIPMENT. CONTAIN TO PREVENT CONTAMINATION OF SOIL.

POTENTIAL HEALTH EFFECTS

EYE: MAY CAUSE PAIN AND SLIGHT EYE IRRITATION. CORNEAL INJURY IS UNLIKELY. VAPORS MAY IRRITATE EYES.

SKIN CONTACT: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION. MAY CAUSE DRYING OR FLAKING OF SKIN. MAY CAUSE MORE SEVERE RESPONSE IF CONFINED TO SKIN. A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS.

INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE LOW. SMALL AMOUNTS SWALLOWED INCIDENTAL TO HUMAN HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; HOWEVER, SWALLOWING AMOUNTS LARGER THAN THAT MAY CAUSE SERIOUS INJURY, EVEN DEATH.

INHALATION: IN CONFINED OR IN POORLY VENTILATED AREAS, VAPORS CAN READILY ACCUMULATE AND CAN CAUSE UNCONSCIOUSNESS AND DEATH. MAY CAUSE ALCOHOL INTOLERANCE OFTEN MANIFESTED BY TEMPORARY REDDENING OF THE SKIN CALLED "DEGREASER'S FLUSH".

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: ALCOHOL CONSUMED BEFORE OR AFTER EXPOSURE MAY INCREASE ADVERSE EFFECTS. REPEATED EXPOSURE MAY CAUSE CENTRAL OR POSSIBLY EVEN PERIPHERAL NERVOUS SYSTEM EFFECTS; HIGH LEVELS HAVE CAUSED LIVER OR KIDNEY EFFECTS IN LABORATORY ANIMALS.

CANCER INFORMATION: A POSITIVE CARCINOGENIC RESPONSE HAS OCCURRED ONLY IN MICE GIVEN LARGE DOSES OF TRICHLOROETHYLENE. BUTYLENE OXIDE HAS BEEN SHOWN TO PRODUCE BENIGN AND MALIGNANT TUMORS IN RATS BUT NOT IN MICE.

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IARC, NTP AS CARCINOGEN

SECTION IV - PHYSICAL DATA

BOILING POINT: 188 DEGREES F
VAPOR PRESSURE: 60 MMHG @ 20 DEGREES C
VAPOR DENSITY: 4.55
SOLUBILITY IN WATER: 0.1 G/100G @ 25 DEGREES C
SPECIFIC GRAVITY: 1.46
APPEARANCE: LIQUID
COLOR: COLORLESS
ODOR: IRRITATING ODOR AT HIGH CONCENTRATIONS
% VOLATILE BY WEIGHT: 100

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE (TCC)
FIRE EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, FOAM, DRY CHEMICAL
FIRE AND EXPLOSION HAZARDS: VAPORS OF THIS PRODUCT CAN BE IGNITED BY HIGH INTENSITY ENERGY SOURCE. HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE BUT NOT LIMITED TO HYDROGEN CHLORIDE, TRACE AMOUNT OF PHOSGENE, CARBON MONOXIDE AND CHLORINE.
FIRE FIGHTING EQUIPMENT: WEAR POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE FIRE FIGHTING CLOTHING.

SECTION VI- HEALTH HAZARD IDENTIFICATION

SYMPTOMS OF OVEREXPOSURE
EYES: IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES.
SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.
INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.
NOTE TO PHYSICIAN:
BECAUSE OF RAPID ABSORPTION OF VAPORS MAY OCCUR THROUGH THE LUNGS IF ASPIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS. SEE STORAGE SECTIONS.
CONDITIONS TO AVOID: AVOID DIRECT SUNLIGHT OR ULTRAVIOLET SOURCES. AVOID OPEN FLAMES, WELDING ARCS, OR OTHER HIGH TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION. HIGH ENERGY SOURCES SUCH AS WELDING ARCS CAN CAUSE DEGRADATION GENERATION CHLORINE, HYDROGEN CHLORIDE AND POSSIBLE PHOSGENE, AND SHOULD BE AVOIDED.
INCOMPATIBILITY- MATERIALS TO AVOID: AVOID CONTACT WITH METALS SUCH AS: ALUMINUM POWDERS, MAGNESIUM POWDERS, POTASSIUM, SODIUM, AND ZINC POWDER. AVOID UNINTENDED CONTACT WITH AMINES. AVOID CONTACT WITH STRONG BASES AND STRONG OXIDIZERS.
HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): PRODUCTS MAY INCLUDE AND ARE NOT LIMITED TO HYDROGEN CHLORIDE AND TRACE AMOUNT OF CHLORINE AND PHOSGENE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED

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SMALL LEAKS: CONTAIN IMMEDIATELY FOR SALVAGE OR DISPOSAL. USE ABSORBENT MATERIAL. REMOVE TO OUT-OF-DOORS

LARGE SPILLS: EVACUATE AREA. CONTAIN, TRANSFER TO CLOSED METAL CONTAINERS.

DISPOSAL METHODS: WHEN DISPOSING OF THE UNUSED CONTENTS, THE PREFERRED OPTIONS ARE TO BE SENT TO A LICENSED RECLAIMER, OR TO PERMITTED INCINERATORS. ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH STATE, FEDERAL AND LOCAL LAWS AND REGULATIONS. DO NOT DUMP INTO SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.

SECTION IX – SPECIAL HANDLING INFORMATION

HANDLING: DO NOT EAT, DRINK OR SMOKE IN WORKING AREA. REFER TO EXPOSURE CONTROLS/PERSONAL PROTECTION, SECTION C OF THE MSDS. 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 PRODUCTS ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. STORE IN A DRY PLACE. DO NOT STORE IN ALUMINUM, ZINC, ALUMINUM ALLOYS AND PLASTIC.

SECTION X – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES. LETHAL CONCENTRATIONS OF VAPORS MAY EXIST IN AREAS WITH POOR VENTILATION.

PERSONAL PROTECTION EQUIPMENT:

EYE/FACE PROTECTION: USE SAFETY GLASSES. IF VAPOR EXPOSURE CAUSES EYE DISCOMFORT, USE FULL FACE RESPIRATOR.

SKIN PROTECTION: USE PROTECTIVE CLOTHING IMPERVIOUS TO THE SOLVENTS IN THIS PRODUCT. SELECTION OF SPECIFIC ITEMS SUCH AS FACE SHIELD, GLOVES, BOOTS, APRON WILL DEPEND ON OPERATION. REMOVE CONTAMINATED CLOTHING IMMEDIATELY, WASH SKIN AREA WITH SOAP AND WATER.

RESPIRATORY PROTECTION: ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINES. WHEN RESPIRATORY PROTECTION IS REQUIRED, USE AN APPROVED AIR-PURIFYING OR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS OR POSITIVE-PRESSURE AIRLINE WITH AUXILIARY SELF-CONTAINED AIR SUPPLY. IN CONFINED OR POORLY VENTILATED AREAS, USE AN APPROVED POSITIVE-PRESSURE SUPPLIED AIR RESPIRATOR.

EXPOSURE GUIDELINE (S):

TRICHLOROETHYLENE: ACGIH IS 50 PPM TWA, 100 PPM STEL, A5. OSHA PEL IS 50 PPM TWA, 200 PPM STEL. PELS ARE IN ACCORDANCE WITH THOSE RECOMMENDED BY OSHA, AS IN THE 1989 REVISION OF PELS.

SECTION XI – TOXICOLOGICAL INFORMATION

SKIN: THE LD50 FOR SKIN ABSORPTION IN RABBITS IS APPROXIMATELY 10,000 MG/KG.

INGESTION: THE ORAL LD50 FOR RATS IS 4920 MG/KG.

INHALATION: THE LC50 FOR RATS IS 12,000 PPM FOR 4 HOURS.

SECTION XII – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

MOVEMENT AND PARTITIONING: BASED LARGELY OR COMPLETELY ON DATA FOR MAJOR COMPONENT (S).

SECTION XIII – DISPOSAL CONSIDERATIONS

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL LAWS AND REGULATIONS. REGULATIONS MAY VARY IN DIFFERENT LOCATIONS. WASTE CHARACTERIZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE SOLELY THE RESPONSIBILITY OF THE WASTE GENERATOR. W.F. TAYLOR CO., INC. HAS NOT CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT

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AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION II.
(COMPOSITION/INFORMATION ON INGREDIENTS)
FOR UNUSED AND CONTAMINATED PRODUCT: THE PREFERRED OPTIONS INCLUDE SENDING TO
A LICENSED, PERMITTED, RECYCLER, RECLAIMER, INCINERATOR OR OTHER THERMAL
DESTRUCTION DEVICE.

SECTION XIV – TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
FOR TDG REGULATORY INFORMATION, IF REQUIRED, CONSULT TRANSPORTATION
REGULATIONS AND PRODUCT SHIPPING PAPERS.
DEPARTMENT OF TRANSPORTATION (D.O.T.)
FOR DOT REGULATORY INFORMATION, IF REQUIRED, CONSULT TRANSPORTATION
REGULATIONS AND PRODUCT SHIPPING PAPERS.

SECTION XV – REGULATORY INFORMATION

(NOT MEANT TO BE ALL-INCLUSIVE, SELECTED REGULATIONS REPRESENTED)
NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE
ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS
OR IMPLIED IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY
DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE
THAT ITS ACTIVITIES COMPLY WITH THE FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS.
THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH
NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS.
SEE OTHER SECTIONS FOR HEALTH AND SAFETY INFORMATION.

SARA TITLE III INFORMATION

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
TRICHLOROETHYLENE	000079-01-6	1.5

SARA HAZARD CATEGORY:
AN IMMEDIATE HEALTH HAZARD
A DELAYED HEALTH HAZARD

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY
WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986:

THIS PRODUCT CONTAINS A CHEMICAL (S) KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE CANCER AND/OR REPRODUCTIVE HARM.

TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR
ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

STATE RIGHT TO KNOW: THE FOLLOWING PRODUCT COMPONENTS ARE CITED ON CERTAIN
STATE LISTS AS MENTIONED.

TRICHLOROETHYLENE
CAS NUMBER: 79-01-6
STATE LISTS: NJ1 NJ2 NJ3 PA1 PA3

NJ1: NEW JERSEY SPECIAL HEALTH HAZARD SUBSTANCE (PRESENT AT EQUAL OR GREATER
THAN 1.0%)

NJ2: NEW JERSEY ENVIRONMENTAL HAZARDOUS SUBSTANCE (PRESENT AT EQUAL OR GREATER
THAN 1.0%)

NJ3: NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE (PRESENT AT EQUAL OR GREATER
THAN 1.0%)

PA1: PENNSYLVANIA HAZARDOUS SUBSTANCE (PRESENT AT EQUAL OR GREATER THAN 1.0%)

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PA3: PENNSYLVANIA ENVIRONMENTAL HAZARDOUS SUBSTANCE (PRESENT AT EQUAL OR GREATER THAN 1.0%)

OSHA HAZARD COMMUNICATION STANDARD: THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA COMMUNICATION STANDARD, 29 CFR 1910.1200/

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA OR SUPERFUND): THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE LISTED AS "HAZARDOUS SUBSTANCE" UNDER CERCLA WHICH MAY REQUIRE REPORTING OF RELEASES:

TRICHLOROETHYLENE

CAS NUMBER: 79-01-6

RQ: 100LBS

NOTICE

W.F. TAYLOR BELIEVES THE DATA SET FORTH HEREIN IS ACCURATE AS OF THE DATE HEREOF. TAYLOR MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION AND VERIFICATION.
