



MATERIAL SAFETY DATA SHEET

A.W.T. WORLD TRADE, INC.

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DATE OF PREP : 03/10/97

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SECTION I

MANUFACTURER : A.W.T. WORLD TRADE, INC.
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CHICAGO, IL 60641

TELEPHONE# : (773)777-7100
EMERGENCY CONTACT : CHEM-TEL
EMERGENCY# : (800)255-3924

PRODUCT CLASS : SPOT OFF-CLEANING SOLVENT
MFG.CODE ID : SO-1G, SO-5G, SO-55G
TRADE NAME : SPOT OFF-CLEANING SOLVENT

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SECTION II-A HAZARDOUS COMPONENTS

NO.	COMPONENT	% BY WT.
1	DICHLOROMETHANE	115 57.06
2	TETRACHLOROETHYLENE	117 41.31
3	STODDARD SOLVENT	19 1.63

>> COMPONENT NUMBER 1 IS A CARCINOGEN OR A POSSIBLE CARCINOGEN. PLEASE REFER TO APPROPRIATE REFERENCE SOURCES FOR CARCINOGENICITY INFORMATION.

>> COMPONENT NUMBER 2 IS A CARCINOGEN OR A POSSIBLE CARCINOGEN. PLEASE REFER TO APPROPRIATE REFERENCE SOURCES FOR CARCINOGENICITY INFORMATION.

(N/A = NOT APPLICABLE)



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SECTION II-B OCCUPATIONAL EXPOSURE LIMITS

NO.	(OSHA)	PEL/TWA	PEL/CEILING
1	500ppm		1000ppm
2	50.000ppm		N/E
3	100.000ppm		N/E

NO.	(OSHA)	PEL/STEL	SKIN*
1	N/E		N
2	200.000ppm		N
3	N/E		N

NO.	(ACGIH)	TLV/TWA	TLV/CEILING
1	50.000ppm		N/E
2	25.00ppm		.c
3	100.000ppm		N/E

NO.	(ACGIH)	TLV/STEL	SKIN*
1	N/E		N
2	100.000ppm		N
3	N/E		N

* (SKIN) ABSORPTION MAY CONTRIBUTE TO THE OVERALL EXPOSURE TO THIS MATERIAL. TAKE APPROPRIATE MEASURES TO PREVENT SKIN CONTACT.
(Y = YES N = NO N/E = NOT ESTABLISHED)

SECTION III PHYSICAL DATA

BOILING POINT : 104 (DEGREES F)
evaporation rate : < 1 (ether = 1) % solid : not applicable
VAPOR DENSITY : > 1 (AIR = 1) WEIGHT PER GALLON : 11.84
(THEORETICAL)

(Boiling point represents boiling point of lowest boiling raw material.)

SECTION IV HEALTH INFORMATION

- EYE CONTACT -

BASED ON THE PRESENCE OF COMPONENT 1 PRODUCT IS PRESUMED TO BE SEVERELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE EXTENSIVE CORNEAL INJURY. BASED ON THE PRESENCE OF COMPONENT 2 PRODUCT VAPORS AND/OR MISTS MAY ALSO BE IRRITATING TO THE EYES.



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- SKIN CONTACT -

BASED ON THE PRESENCE OF COMPONENT 1 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THE SKIN. BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERMATITIS.

- INHALATION -

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 1, 2 AND 3 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CARDIAC ARRHYTHMIAS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. BASED ON THE PRESENCE OF COMPONENT 1 DUE TO THE HIGH VAPOR PRESSURE OF THIS MATERIAL, AMBIENT VAPOR LEVELS CAN QUICKLY REACH DANGEROUS LEVELS IN SMALL ROOMS OR POORLY VENTILATED AREAS.

- INGESTION -

BASED ON THE PRESENCE OF COMPONENT 1 PRODUCT IS PRESUMED TO BE MODERATELY TOXIC. BASED ON THE PRESENCE OF COMPONENT 1 INGESTION MAY CAUSE LIVER DAMAGE. BASED ON THE PRESENCE OF COMPONENTS 1, 2 AND 3 SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

- SIGNS AND SYMPTOMS -

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTINAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 1 AND 3 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.



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- AGGRAVATED MEDICAL CONDITIONS -

PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED HEART FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

- OTHER HEALTH EFFECTS -

BASED ON THE PRESENCE OF COMPONENT 1 PRODUCT IS PRESUMED TO BE CARCINOGENIC. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 CHRONIC OVEREXPOSURE MAY CAUSE INJURY TO THE KIDNEYS AND LIVER. BASED ON THE PRESENCE OF COMPONENT 3 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS. BASED ON THE PRESENCE OF COMPONENT 2 PRODUCT IS PRESUMED TO BE AN ANIMAL CARCINOGEN.

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SECTION V EMERGENCY AND FIRST AID PROCEDURES

- EYE CONTACT -

IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

- SKIN CONTACT -

REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

- INHALATION -

OVEREXPOSURE TO THIS MATERIAL MAY INCREASE THE SENSITIVITY OF THE HEART TO EPINEPHRINE.

- INGESTION -

DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

- NOTES FOR PHYSICIAN -

THE FOLLOWING COMPONENT-SPECIFIC INFORMATION MAY CONTAIN CONTRADICTIONS, AND IS INTENTIONALLY INCLUDED TO GIVE THE ATTENDING PHYSICIAN SPECIFIC INFORMATION ABOUT THE INDIVIDUAL COMPONENTS OF THE BLEND. >> COMPONENTS 2 AND 3 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED.



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SECTION VI FIRE AND EXPLOSION HAZARDS

FLASH POINT : NOT APPLICABLE

- EXTINGUISHING MEDIA -
NOT APPLICABLE

- SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS -
NOT APPLICABLE

- UNUSUAL FIRE AND EXPLOSION HAZARDS -
NOT APPLICABLE

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SECTION VII REACTIVITY

STABILITY : STABLE HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

- CONDITIONS AND MATERIALS TO AVOID -

BASED ON THE PRESENCE OF COMPONENT 3 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AVOID STRONG ACIDS. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AVOID STRONG ALKALIES. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AVOID ALKALI METALS. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AVOID ALUMINUM AND ITS ALLOYS. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AVOID CONTACT WITH ZINC.

- HAZARDOUS DECOMPOSITION PRODUCTS -

CHLORINE GAS, HCL AND OTHER CHLORINATED COMPOUNDS, CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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SECTION VIII EMPLOYEE PROTECTION

- RESPIRATORY PROTECTION -

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS - AT LEAST 10 AIR CHANGES PER HOUR ARE RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLV, USE THE APPROPRIATE NIOSH-APPROVED RESPIRATOR.

- PROTECTIVE CLOTHING -

WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT. CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

- ADDITIONAL PROTECTIVE MEASURES -

EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.



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SECTION IX ENVIRONMENTAL PROTECTION
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- SPILL OR LEAK PROCEDURES -

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

- WASTE DISPOSAL -

OBSERVE ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

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SECTION X ADDITIONAL PRECAUTIONS
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AFTER CONTACT WITH PRODUCT OR CONTAINER WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

UNDER THE PROVISIONS OF TITLE III, SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR, PART 372, THE FOLLOWING COMPONENTS MAY BE SUBJECT TO REPORTING:

DICHLOROMETHANE (CAS# 000075-09-2)	57.06 WT%
TETRACHLOROETHYLENE (CAS# 000127-18-4)	41.31 WT%

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THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.