MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DESIGN MAS HAWAIIAN ORCHID 776 HMIS CODES: H

PRODUCT CODE: L-10518

======== SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: HYDROSOL INC.

ADDRESS: 455 FRONTAGE ROAD, BURR RIDGE, IL 60521

EMERGENCY PHONE: 312-598-5448 INFORMATION PHONE: 312-598-5448

DATE PREPARED : 08-18-87

NAME OF PREPARER : ESP

REASON REVISED : UFDATE

======= SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS OSHA PEL ACGIH TLV .			VAPOR PRESSURE mm Hg 2 TEMP			
2-PROPANOL, ISOPROPYL ALCOHOL	67-63-0	400	400	33.0	68F	··	5.0%	•
ISOBUTYL ACETATE	110-19-0	200	150	13.0	68F	<	5.0X	
ACETONE	67-64-1	1000	750	181.0	68F		70	
PROFANE	74-98-6	1000	ASPHYXIANT	6350.0	68F		15	

======== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: NOT APPLICABLE

SPECIFIC GRAVITY (H2D=1):

0.7

VAPOR DENSITY: N/A

EVAPORATION RATE: N/A

V.O.C.: N/A

SOLUBILITY IN WATER: SLIGHT TO MODERATE

APPEARANCE AND ODOR: AEROSOL PRODUCT

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.3% UPPER: 13.0%

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION WHEN EX-POSED TO EXTREME HEAT. IF WATER IS USED, FOR NOZZLES PREFERRED. WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE FROM INTERNAL PRESSURE BUILD-UP WHEN EXPOSED TO EXTREME HEAT AND DISCHARGE CONTENTS, VAPOR ACCUMULATION CAN FLASH OR EXPLODE IF ISNITED. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH MAZARD. SYMPTOMS MAY NOT BE READILY APPARENT, OBTAIN MEDICAL ATTENTION.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID

PPLICATION TO HOT SURFACES. STORAGE ABOVE 120 DEG F. EXPOSURE TO OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

'AY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE AND DXIDES OF NITROSEN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

================= SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE RESPIRATORY IRRITATION, DIZZINESS, HEADACHE, NAUSEA, FATIGUE, DROWSINESS, IMPAIRED CO-ORDINATION, EYE WATERING.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE SKIN: CONTACT MAY DRY THE SKIN; PROLONGED CONTACT MAY CAUSE IRRITION.

EYES: LIQUID OR VAPOR CAN IRRITATE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE CAN BE ABSORBED THROUGH SKIN. SOLVENT ACTION CAN DRY AND DEFAT THE SKIN CAUSING SKIN TO CRACK, LEADING TO DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE NOT A LIKELY ROUTE OF EXPOSURE. IF SWALLOWED, SEEK IMMEDIATE MEDICAL ADVICE AND/OR ATTENTION.

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE: EYE, SKIN, AND RESPIRATORY SYSTEM IRRITANT. NARCOTIC IN HIGH CONCENTRATIONS. SEVERE OVEREXPOSURE MAY CAUSE DAMAGE TO THE BLOOD.

CHRONIC: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERV-DUS SYSTEM AND OTHER INTERNAL ORGAN DAMAGE.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE LIVER AND KIDNEY DISEASE, ANEMIA, CORDWARY DISEASE, PREGNANT WOMEN SHOULD AVOID EXPOSURE TO SOLVENTS.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WIPE OFF WITH TOWEL. WASH WITH SOAP AND WATER. BET MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYES: WASH IMMEDIATELY WITH LARGE VOLUMES OF FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

L-	1	O	5	t	Я
-	•	v	~	•	

MATERIAL SAFETY DATA SHEET

PAGE 3 OF 3

======== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CLEAN UP AREA WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE AND USE IN COOL, DRY, WELL-VENTILATED AREAS. DO NOT STORE ABOVE 120 DES F. DO NOT PUNCTURE OR INCINERATE (BURN) CANS. DO NOT STICK PIN, MAIL OR ANY OTHER SHARP OBJECT INTO OPENING ON TOP OF CAN. DO NOT SPRAY IN EYES. DO NOT TAKE INTERNALLY. SEE PRODUCT LABEL FOR ADDITIONAL INFORMATION.

OTHER PRECAUTIONS

SHALL PRESSURIZED CONTAINERS OF FLAMMABLE PRODUCTS MAY BE STORED IN AREAS SUITABLE FOR ORDINARY COMBUSTIBLES WITH RE-SPECT TO CONSTRUCTION, DRAINAGE, CONTROL OF ISMITION SOURCES, AND VENTILATION EXCEPT THAT THEY SHOULD NOT BE STORED IN BASEMENTS.

RESPIRATORY PROTECTION

NONE UNDER NORMAL USE. AVOID BREATHING VAPORS. IN RESTRICTED AREAS, USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPOR. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATOR OR HOOD. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE PEL/TLV LIMITS.

VENTILATION

SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS. GENERAL DILUTION AND/OR LOCAL EXHAUST VENTILATION IN VOLUME OR PAT-TERN TO KEEP PEL/TLV OF MOST HAZARDOUS INGREDIENT BELOW ACCEPTABLE LIMIT AND LEL BELOW STATED LIMIT.

PROTECTIVE GLOVES

NOME UNDER NORMAL USE. SOLVENT RESISTANT GLOVES REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION

NONE UNDER NORMAL USE; HOWEVER, USE OF SAFETY GLASSES WITH SPLASH SUARDS OR FULL FACE SHIELD IS RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

NOME UNDER NORMAL USE; HOWEVER, USE OF SOLVENT RESISTANT APRONS OR OTHER CLOTHING IS RECOMMENDED.

WORK/HYGIENIC PRACTICES

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED RE-GARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL, HYDROSOL, INC. ASSUMES NO RESPONSIBILITY FOR ITS USE.