## MATERIAL SAFETY DATA SHEET

DOUCT NAME: DESIGN MASTER HAND CLEANER 737 HMIS CODES: H F R P

PRODUCT CODE: L-10571

1 4 0

MANUFACTURER'S NAME: HYDROSOL INC.

ADDRESS: 455 FRONTAGE ROAD, BURR RIDGE, IL 60521

EMERGENCY PHONE: 312-598-5448

INFORMATION PHONE: 312-598-5448

NAME OF PREPARER : ESP

REASON REVISED : UPDATE

DATE PREPARED : 08-18-87

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

HAZARDOUS COMPONENTS	CAS NUMBER		TIONAL EXPOSURE LIMITS ACGIH TLV	VAPOR PRESSU mm Hg 2 TE	RE WEIGHT
PROPYLENE GLYCOL METHYL ETHER	107-98-2	NE	NE	8.4 6	BF 40
PETROLEUM DISTILLATE, VM&P NAPHTHA	64742-89-8	500	300	10.0 6	3F 20
PETROLEUM DISTILLATE, MINERAL SPIRITS	64742-88-7	.500	NOT ESTAB	2.4 6	3F < 5.0%
ACETONE	67-64-1	1000	750	181.0 6	3F 25
PROPANE	74-98-6	1000	ASPHYXIANT	6350.0 6	3F 15

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

BOILING POINT: NOT APPLICABLE

SPECIFIC GRAVITY (H2O=1): EVAPORATION RATE: N/A 0.8

VAPOR DENSITY: N/A

V.O.C.: N/A

SOLUBILITY IN WATER: SLIGHT TO MODERATE

APPEARANCE AND ODOR: AEROSOL PRODUCT

========= SECTION IV - FIRE AND EXPLOSION HAZARD DATA ===========

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9% 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, FOG NOZZLES PREFERRED. WEAR SOGGLES 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 IGNITED. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE READILY APPARENT. OBTAIN MEDICAL ATTENTION.

STABILITY: STABLE

CONDITIONS TO AVOID

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

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE AND OXIDES OF NITROSEN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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-OUS 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, CORONARY 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

SKIN: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WIPE OFF WITH TOWEL. WASH WITH SDAP AND WATER. GET MEDICAL AT-TENTION IF IRRITATION PERSISTS.

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

g 2	 1	05	7	4

### 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 DEG F. DO NOT PUNCTURE OR INCINERATE (BURN) CANS. DO NOT STICK PIN, NAIL 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

SMALL PRESSURIZED CONTAINERS OF FLAMMABLE PRODUCTS MAY BE STORED IN AREAS SUITABLE FOR ORDINARY COMBUSTIBLES WITH RESPECT TO CONSTRUCTION, DRAINAGE, CONTROL OF IGNITION SOURCES, AND VENTILATION EXCEPT THAT THEY SHOULD NOT BE STORED IN BASEMENTS.

## PIRATORY PROTECTION

NOWE 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 BREATHINS 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

NONE 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

NONE 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.

### DTCLAIMER

AFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED RE-SARDING 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.