

MATERIAL SAFETY DATA SHEET

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PREPARATION DATE: 11/26/91

REPLACES DATE: 01/23/91

PREPARER: FJS

SECTION I - PRODUCT IDENTIFICATION

DAYSOL SOLVENT  
 REDUCER  
 6054

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	(TLV-TWA)	OCCUPATIONAL EXPOSURE LIMITS (TLV-STEL)	(PEL)	VAPOR PRESSURE mmHg 20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
METHANOL	67-56-1	55%	200 ppm	* 200 ppm	200 ppm	96.0	NO	YES
ETHANOL	64-17-5	50%	1000 ppm	NO INFO	1000 ppm	30.0	NO	NO

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1986 AND OF 40 CFR 372.

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING RANGE : 148-175 F  
 ODOR : TYPICAL ODOR  
 APPEARANCE : CLEAR LIQUID  
 VOLATILE BY WEIGHT: 100.0%  
 VOLATILE BY VOLUME: 100.0%

VAPOR DENSITY : IS HEAVIER THAN AIR  
 EVAPORATION RATE: IS FASTER THAN BUTYL ACETATE  
 SOLUBILITY : APPRECIABLE  
 PRODUCT DENSITY : 6.7 LBS./GAL. (U.S.)

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
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FLAMMABILITY CLASSIFICATION: FLASH POINT: 48 F LEL: 3.3 %  
(SETAFLASH CLOSED CUP) UEL: 36.5 %  
OSHA - FLAMMABLE LIQUID - CLASS IB  
DOT - FLAMMABLE LIQUID OR SOLID

EXTINGUISHING MEDIA: DRY CHEMICAL CARBON DIOXIDE FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. VAPORS MAY MIGRATE TO IGNITION SOURCE AND CAUSE FLASH FIRE. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, APPLIANCES, PILOT LIGHTS, FLAMES AND OTHER SOURCES OF IGNITION.

SPECIAL FIREFIGHTING PROCEDURES: USE NIOSH/MSHA APPROVED GAS MASK FOR FIRE FIGHTING PERSONNEL. WATER MAY BE INEFFECTIVE "AND MAY SPREAD FIRE." WATER MAY BE USED TO COOL CONTAINERS. IF WATER IS USED FOG NOZZLES ARE PREFERRED.

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SECTION V - HEALTH HAZARD DATA  
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EFFECTS OF OVER EXPOSURE: BREATHING OF HIGH VAPOR CONCENTRATIONS MAY PRODUCE NARCOSIS. LIQUID MAY CAUSE MINOR SKIN IRRITATION AND DEFINITE EYE IRRITATION. CHRONIC HEALTH EFFECTS ARE POSSIBLE FROM LONG TERM EXPOSURE TO THIS MATERIAL, INCLUDING DRYING, CRACKING AND IRRITATION OF THE SKIN. THIS PRODUCT IS A "MIXTURE" FOR WHICH NO HEALTH HAZARD DATA EXIST. THE HCS REQUIRES THAT SUCH MIXTURES ASSUME TO PRESENT THE SAME HEALTH HAZARD AS DO COMPONENTS THAT CONSTITUTE AT LEAST 1% OF MIXTURE. METHANOL IS A POISONOUS, NARCOTIC CHEMICAL THAT CAN AFFECT THE BODY VIA INGESTION, INHALATION, AND PROLONGED REPEATED SKIN CONTACT. ABSORPTION IS RAPID AND EXCRETION MUCH SLOWER THAN ETHANOL, RESULTING IN DELAYED EFFECTS BY REPEATED OR COMPOUNDING OF EFFECTS BY REPEATED EXPOSURE. IN THE BODY, THE PRODUCTS FORMED BY IT'S OXIDATION ARE FORMALDEHYDE AND FORMIC ACID, BOTH OF WHICH ARE TOXIC. \* SPECIAL NOTE: METHANOL 200 PPM 10-HR TWA 800 PPM 15-MIN CEILING EXCEPT THAT CHEMICALS IDENTIFIED AS CARCINOGENS SHALL BE LISTED IF THE CONCENTRATIONS ARE 0.1% OR GREATER.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING SENSITIVITY TO SOLVENTS CAN CAUSE A HEIGHTENED REACTION TO EXPOSURE TO THIS PRODUCT. CONTAINS POISON. THIS PRODUCT IS HIGHLY TOXIC BY INGESTION, DIGESTIVE TRACT, NERVOUS SYSTEM DEPRESSION, ABDOMINAL PAIN, CONVULSIONS, COMA, DEATH, & BLINDNESS.

PRIMARY ROUTE(S) OF ENTRY: INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES: INHALATION: REMOVE TO FRESH AIR, RESTORE BREATHING. CONSULT A PHYSICIAN. SKIN CONTACT: FLUSH WITH WATER. EYE CONTACT: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER. CONSULT A PHYSICIAN. INDUCE VOMITING WITH 1 TABLESPOON OF IPECAC OR BY TOUCHING BACK OF THROAT. ONCE VOMITING HAS OCCURED, GIVE MILK OR SODIUM BICARBONATE. CALL A PHYSICIAN. REPORTS HAVE ASSOCIATED REPEATED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE (REFERRED TO AS SOLVENT OR PAINTERS' SYNDROME).

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SECTION VI - REACTIVITY DATA  
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STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY YIELD CARBON DIOXIDE AND/OR

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SECTION VI - REACTIVITY DATA  
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CARBON MONOXIDE.

CONDITIONS TO AVOID: EXCESSIVE HEAT, SPARKS, OR OPEN FLAME.

INCOMPATABILITY: STRONG OXIDIZING AGENTS

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SECTION VII - SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE SOURCES OF IGNITION AND PROVIDE VENTILATION. LARGE SPILLS MAY BE SCOOPED UP WITH NON-SPARKING TOOLS. SMALL QUANTITIES MAY BE PICKED UP WITH ABSORBENT MATERIAL.

WASTE DISPOSAL METHOD: PLACE IN CLOSED CONTAINERS. DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

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SECTION VIII - SAFE HANDLING AND USE INFORMATION  
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RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED RESPIRATOR TYPES SUITABLE FOR MATERIALS IN SECTION II RECOMMENDED. APPROVED CHEMICAL/MECHANICAL FILTERS RECOMMENDED WHEN VENTILATION IS RESTRICTED. APPROVED AIRLINE TYPE RESPIRATORS OR HOODS RECOMMENDED IN CONFINED AREAS.

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGIH'S TLV LIMIT.

PROTECTIVE GLOVES: RECOMMENDED FOR PROLONGED OR REPEATED CONTACT. CHEMICAL RESISTANT PLASTIC OR RUBBER.

EYE PROTECTION: CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED TO AVOID WETTING CLOTHING. USE PROTECTIVE CREAMS WHERE SKIN CONTACT IS LIKELY. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. EYE BATH AND SAFETY SHOWER.

HYGENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY. ALL EQUIPMENT SHOULD COMPLY WITH SECTIONS 1910.132 - .135 OSHA STANDARDS

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SECTION IX - SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID PROLONGED SKIN CONTACT. DO NOT BREATHE SPRAY MIST. STORE IN A COOL DRY AREA WITH VENTILATION SUITABLE FOR STORING MATERIALS SHOWN IN SECTION II. WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

OTHER PRECAUTIONS: GROUND CONTAINERS WHILE POURING. AVOID SPONTANEOUS COMBUSTION OF CONTAMINATED RAGS OR OTHER ORGANIC MATERIALS. EMPTY CONTAINERS MAY RETAIN HAZARDOUS PROPERTIES AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME OR OTHER SOURCES OF IGNITION. "WARNING: HOT

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SECTION IX - OTHER PRECAUTIONS  
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ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED ON THE "MSDS". IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES. IGNITION MAY OCCUR AT TYPICAL ELEVATED TEMPERATURE PROCESS CONDITIONS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED." JAMES B. DAY & CO. RECOMMENDS THAT YOU EXAMINE YOUR PARTICULAR PROCESSES TO ESTABLISH IF AN ACTUAL HAZARD EXISTS.

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SECTION X - HMIS RATINGS  
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HEALTH: 4\*      FLAMMABILITY: 3      REACTIVITY: 0      PERSONAL PROTECTION: H

NOTICE: These ratings involve data and interpretations that may vary from company to company and are intended only for rapid, general identification of the magnitude of the specific hazard. TO DEAL ADEQUATELY WITH THE SAFE HANDLING OF THIS MATERIAL, ALL THE INFORMATION CONTAINED IN THIS MSDS MUST BE CONSIDERED. The customer is responsible for determining the proper personal protective equipment for its particular use of this material.

\*Hazardous Materials Identification System's [HMIS] Revised RAW MATERIALS RATING MANUAL, National Paint & Coatings Association, Fall 1984.

The information contained herein is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

HMIS RATING VALUES:    4 = EXTREME    3 = HIGH    2 = MODERATE    1 = SLIGHT    0 = INSIGNIFICANT

THE INFORMATION CONTAINED HEREIN IS DERIVED FROM THE RAW MATERIAL SUPPLIER'S MSD SHEETS AND IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.