

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

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MILLER PAINT CO., INC.
12730 N.E. WHITAKER WAY
PORTLAND, OR 97230

INFORMATION AND EMERGENCY
TELEPHONE NUMBER:
503-255-0190

NAME OF PRODUCT: SPAR ENAMEL
PRODUCT NUMBER: 2510 - 2558, XXXXXXXXXX
PRODUCT CLASS: SOLVENT-BASED COATING
PREPARATION DATE: 11/25/85

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT (BY WEIGHT)	EXPOSURE LIMITS		VAPOR PRESSURE MM HG @68F
		TLV (PPM)	PEL (MG/M3)	
MINERAL THINNER	33.5-51.1	125		5 @ 77 F

SECTION III - PHYSICAL DATA

BOILING RANGE (F): 148-391 VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER 42.5-55.6 % VOLATILE BY VOLUME
WEIGHT PER GALLON (IN POUNDS): 7.7-9.5

SECTION IV - FIRE & EXPLOSION HAZARDS

DOT FLAMMABILITY CLASSIFICATION: COMBUSTIBLE LIQUID
SETAFLASH FLASH POINT (F): 112 LEL: 0.7 %
EXTINGUISHING MEDIA:

FOAM, 'ALCOHOL' FOAM, CO2, DRY CHEMICAL, WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. SOLVENT VAPORS CAN TRAVEL TO AN IGNITION SOURCE AND FLASH BACK. FINE SPRAYS/MISTS MAY BE COMBUSTIBLE AT TEMPERATURES BELOW NORMAL FLASH POINT. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP PEOPLE AWAY. DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT INCLUDING A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL CLOSED CONTAINERS WITH WATER. FULL STREAM WATER MAY BE INNEFFECTIVE AS AN EXTINGUISHING METHOD, BUT IS HELPFUL IN KEEPING NEARBY CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

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SECTION V - HEALTH HAZARD DATA

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HAZARDS:

EYES: MAY CAUSE IRRITATION

DERMAL: PROLONGED AND REPEATED CONTACT CAN CAUSE SKIN IRRITATION, DRYNESS, DEFATTING, DERMATITIS.

INGESTION: MAY CAUSE HEADACHE, GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA, WEAKNESS, AND IN SUFFICIENT QUANTITIES MAY BE FATAL. ASPIRATION OF LIQUID MUST BE AVOIDED AS LIQUID CONTACT WITH LUNGS CAN RESULT IN CHEMICAL PNEUMONITIS AND PULMONARY EDEMA/HEMORRAGE.

INHALATION: SOLVENT VAPORS, MISTS OR RESIDUAL MONOMERS CAN CAUSE DROWSINESS, COUGH, BRONCHITIS, BLURRED VISION, IRRITATION OF MEMBRANES OF THE RESPIRATORY TRACT, ASPHYXIATION AND SIGNS OF CENTRAL NERVOUS SYSTEM DEPRESSION SUCH AS HEADACHE, DIZZINESS, NAUSEA, WEAKNESS AND LOSS OF COORDINATION. REPEATED AND PROLONGED EXPOSURE MAY CAUSE PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

PRIMARY ROUTE(S) OF ENTRY: DERMAL, INHALATION, INGESTION.

EMERGENCY & FIRST AID PROCEDURES:

SPLASH (EYES): FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR MEDICAL TREATMENT.

SPLASH (SKIN): WASH EFFECTED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: DRINK 1 OR 2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY.

INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. TREAT SYMPTOMATICALLY. CONSULT A PHYSICIAN.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL COMBUSTION FORMS CARBON DIOXIDE; INCOMPLETE COMBUSTION CAN PRODUCE CARBON MONOXIDE. LOW MOLECULAR WEIGHT HYDROCARBONS AND ORGANIC ACID. HYDROGEN CYANIDE AND TOLUENE DIISOCYANATE POSSIBLY ACROLEIN GAS.

CONDITIONS TO AVOID: HIGH TEMPERATURES AND EXTREME HEAT. OXIDIZING MATERIALS.

INCOMPATIBILITY (MATERIALS TO AVOID): MAY REACT WITH OXIDIZING MATERIALS. AVOID HEAT, SPARKS AND OPEN FLAME.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

KEEP UNNECESSARY PEOPLE AWAY. CLEAN UP SPILLS AS SOON AS POSSIBLE. ELIMINATE ALL SOURCES OF IGNITION. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. USE NON-SPARKING TOOLS. VENTILATE ENCLOSED SPACES. AVOID BREATHING VAPORS. WEAR PROTECTIVE EQUIPMENT, OBSERVING PRECAUTIONS IN SECTIONS IV THROUGH VIII. DIKE AND CONTAIN SPILL WITH INERT MATERIAL (CLAY, SAND, ETC.). SOAK UP RESIDUE WITH AN ABSORBANT SUCH AS CLAY OR DIATOMACEOUS EARTH. PLACE IN NON-LEAKING CONTAINERS, SEAL TIGHTLY AND LABEL PROPERLY FOR DISPOSAL. A FIRE OR HEALTH HAZARD MAY STILL EXIST SINCE THESE MATERIALS WILL ONLY ABSORB LIQUID; THEY WILL NOT ABSORB VAPORS.

WASTE DISPOSAL: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS CONCERNING HAZARDOUS WASTE.

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SECTION VIII - SAFE HANDLING AND USE INFORMATION

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RESPIRATORY PROTECTION: IF EXPOSURE CAN POTENTIALLY EXCEED TLV, OR FOR APPLICATION WITH SPRAY EQUIPMENT, USE NIOSH APPROVED SELF CONTAINED BREATHING EQUIPMENT. IF EXPOSURE DATA IS LACKING, ASSUME TLV IS EXCEEDED.

VENTILATION: PROVIDE ADEQUATE VENTILATION (WITH EXPLOSION PROOF EQUIPMENT) TO MAINTAIN EXPOSURE LEVEL BELOW TLV.

PROTECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES TO PREVENT CONTACT.

EYE PROTECTION: SAFETY EYEWEAR INCLUDING SPLASH GUARDS, CHEMICAL GOGGLES OR FACE SHIELDS RECOMMENDED (REQUIRED FOR SPRAY APPLICATION).

OTHER PROTECTIVE EQUIPMENT: REMOVE CONTAMINATED CLOTHING AND ALLOW SOLVENT TO EVAPORATE BEFORE RE-USE.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, DRINKING, SMOKING OR USING THE WASHROOM.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE OR USE NEAR HEAT, SPARK, OPEN FLAME OR OXIDIZERS. STORE AND USE ONLY IN WELL VENTILATED AREAS. AVOID BREATHING VAPORS OR SPRAY MIST. AVOID EYE OR SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. READ AND OBSERVE PRECAUTIONS ON PRODUCT LABEL AND THIS SHEET. KEEP OUT OF REACH OF CHILDREN. 'EMPTY' CONTAINERS MAY BE HAZARDOUS FROM RESIDUES OF PRODUCT AND VAPOR AND ALL CAUTIONS OF THIS SHEET APPLY TO THEM.

OTHER PRECAUTIONS:

DRUMS OF THIS MATERIAL SHOULD BE GROUNDED AND BONDED WHEN POURING.

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THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE ASSUME NO RESPONSIBILITY FOR ANY INACCURACIES THAT MAY SUBSEQUENTLY BE PROVEN. PURCHASER ASSUMES ALL RISK IN HIS USE OF THE MATERIAL EVEN WHEN RECOMMENDED SAFETY PROCEDURES ARE FOLLOWED, AS MANUFACTURER CANNOT PRESCRIBE SAFETY MEASURES FOR ALL POSSIBLE COMBINATIONS OF USE, ENVIRONMENT, AND SUSCEPTABILITY OF ALL PERSONS TO CHEMICAL SUBSTANCES.