

MATERIAL SAFETY DATA SHEET

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FOR CHEMICAL EMERGENCY
 SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
 CALL CHEMTREC - DAY OR NIGHT
 TELEPHONE #: 800-424-9300

MSDS #: 40 PREPARATION DATE: 1/2/90 REPLACES DATE: 8/18/89 PREPARED BY: RMB

SECTION I - PRODUCT IDENTIFICATION

MARVEL GROUP H2030 GRAY RAABE PART #30517-01
 ACRYLIC LACQUER AEROSOL SPRAY PAINT, LEAD FREE

SECTION II - INGREDIENTS

CHEMICAL NAME	CAS #	WT. % LESS THAN	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mmHg @ 20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
			TLV-TWA	TLV-STEL	PEL			
PROPYLENE GLYCOL METHYL ETHER ACETATE	158-65-6	10%	NONE ESTABLISHED			3.1	NO	NO
ACETONE	67-64-1	26%	750PPM	1000PPM	750PPM	18.7	NO	YES
PROPANE	74-98-6	20%	1000PPM	NO INFO	NO INFO	407.5	NO	NO
TOLUENE	108-88-3	10%	100PPM	100PPM	100PPM	22.5	NO	YES
N-BUTANE	108-10-4	30%	800PPM	NO INFO	NO INFO	47.8	NO	NO
N-BUTANE	8004-76-3	1%	NO INFO	NO INFO	NO INFO	0.8	NO	NO
NITROCELLULOSE		18%		NOT HAZARDOUS		0.8	NO	NO
ORGANIC AND INORGANIC PIGMENTS		10%		NOT HAZARDOUS		0.8	NO	NO
ACRYLIC RESIN	8008-01-4	10%		NO INFO	150PPM	16.8	NO	NO
ISOBUTYL ACETATE	110-19-0	5%	100PPM	NO INFO	100PPM	71.9	NO	YES
METHYL ETHYL KETONE	78-96-3	3%	200PPM	200PPM	200PPM	14.0	NO	YES
METHYL ISOBUTYL KETONE	108-10-1	3%	20PPM	20PPM	20PPM	2.4	NO	NO
DIISOBUTYL KETONE	108-23-8	3%	20PPM	NO INFO	NO INFO	0.9	YES	YES
BUTYL BENZYL PHTHALATE	88-68-7	3%	5 mg/m ³	NO INFO	NO INFO	5.1	NO	YES
XYLENE	1320-28-7	5%	100PPM	100PPM	100PPM	22.9	NO	NO
ISOPROPYL ALCOHOL	67-63-0	1%	400PPM	200PPM	800PPM			

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 371

SECTION III - PHYSICAL DATA

BOILING RANGE: 31-484 °F VAPOR DENSITY: HEAVIER THAN AIR SPECIFIC GRAVITY: .7212 - .7693
 EVAPORATION RATE: FASTER THAN N-BUTYL ACETATE VOLATILE BY VOLUME: 90-94% VOLATILE BY WEIGHT: 85-90%
 ODOR: SOLVENT ODOR APPEARANCE: PIGMENTED LIQUID SOLUBILITY: APPRECIABLE IN H₂O

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: FLASH POINT: < -25°F
 OSHA: FLAMMABLE LIQUID - CLASS IA LOWER EXPLOSIVE LIMIT: .3%
 DOT: FLAMMABLE COMPRESSED GAS (Shipped under Consumer Commodity ORM-D) UPPER EXPLOSIVE LIMIT: 12.8%
 EXTINGUISHING MEDIA: DRY CHEMICAL CARBON DIOXIDE FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR SOURCES OF HEAT, SPARKS OR OPEN FLAME. KEEP AWAY FROM ANY SOURCE OF HEAT SUCH AS SUNLIGHT, HEATERS, OR STOVES THAT COULD CAUSE THE CONTAINER TO BURST. DO NOT PUNCTURE OR INCINERATE. DO NOT CRUSH OR PLACE IN A GARBAGE COMPACTOR. DO NOT STORE ABOVE 120 DEGREES FAHRENHEIT. AEROSOL CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. PRODUCT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.

SPECIAL FIREFIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF VAPORS SHOULD BE USED. WATER SPRAY SHOULD NOT BE USED EXCEPT TO KEEP DOWN VAPORS OR COOL CLOSED CONTAINERS TO PREVENT BUILD-UP OF PRESSURE. IF WATER IS USED, FOG NOZZLES ARE PREFERRED.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION, DERMAL

EFFECT OF ACUTE OVEREXPOSURE: INHALATION: EXPOSURE TO HIGH CONCENTRATIONS OF VAPORS MAY CAUSE DIZZINESS, BREATHING DIFFICULTY, HEADACHES OR RESPIRATORY IRRITATION. EXTREMELY HIGH CONCENTRATIONS MAY CAUSE DROWSINESS, STAGGERING, CONFUSION, UNCONSCIOUSNESS COMA OR DEATH. HIGH CONCENTRATIONS OF VAPORS MAY BE IRRITATING TO THE THROAT AND LUNGS. SKIN CONTACT: MAY CAUSE SKIN IRRITATION. EYE CONTACT: MAY CAUSE EYE IRRITATION. INGESTION: MODERATELY TOXIC. MAY CAUSE STOMACH DISCOMFORT, NAUSEA, VOMITING, DIARRHEA, AND NARCOSS. REPEATED BREATHING OR SKIN CONTACT OF METHYL ETHYL KETONE MAY INCREASE THE POTENCY OF NEUROTOXINS SUCH AS HEXANE IF EXPOSURES OCCUR AT THE SAME TIME.

EFFECTS OF CHRONIC OVEREXPOSURE: CHRONIC OVEREXPOSURE TO A COMPONENT OR COMPONENTS IN THIS PRODUCT HAVE BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS. KIDNEY DAMAGE, EYE DAMAGE, LUNG DAMAGE, LIVER DAMAGE, SPLEEN DAMAGE, ANEMIA, AND BRAIN DAMAGE. CHRONIC OVEREXPOSURE TO A COMPONENT OR COMPONENTS IN THIS

SECTION V - HEALTH HAZARD DATA

PRODUCT HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: LIVER DAMAGE, CARDIAC ABNORMALITIES, AND KIDNEY DAMAGE. PRODUCT CONTAINS BUTYL BENZYL PHTHALATE WHICH HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: NONE GENERALLY RECOGNIZED.

EMERGENCY AND FIRST AID PROCEDURES: INHALATION: MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. SKIN CONTACT: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: SINCE THIS PRODUCT MAY CONTAIN MATERIALS WHICH CAN CAUSE LUNG DAMAGE IF ASPIRATED INTO THE LUNGS, THE DECISION WHETHER TO INDUCE VOMITING OR NOT MUST BE MADE BY A PHYSICIAN AFTER CAREFUL CONSIDERATION OF ALL MATERIALS INGESTED.

SECTION VI - REACTIVITY DATA

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE, AND UNIDENTIFIABLE ORGANIC MATERIALS.

CONDITIONS TO AVOID: AVOID CONTACT WITH HEAT, SPARKS, AND OPEN FLAME.

INCOMPATIBILITY: STRONG OXIDIZING AGENTS.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. AVOID HEAT, SPARKS AND ANYTHING WHICH COULD CAUSE FIRE. VENTILATE AREA OF SPILL AND ADJACENT LOW-LYING AREAS. AVOID BREATHING SOLVENT VAPORS. REMOVE WITH INERT ABSORBANT MATERIALS AND NON-SPARKING TOOLS.

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

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMITS ARE EXCEEDED FOR ANY COMPONENT (SEE SECTION 2 FOR HAZARDOUS COMPONENTS AND EXPOSURE LIMITS), A NIOSH/OSHA APPROVED RESPIRATOR SUITABLE FOR COMPONENTS LISTED IS RECOMMENDED.

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

EYE PROTECTION: CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD ARE RECOMMENDED IF CONTACT WITH EYES IS LIKELY.

OTHER PROTECTIVE EQUIPMENT: APPROPRIATE IMPERVIOUS CLOTHING IS RECOMMENDED IF PROLONGED OR REPEATED CONTACT IS LIKELY.

HYGIENIC PRACTICES: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL DRY AREA WITH VENTILATION SUITABLE FOR STORING MATERIALS SHOWN IN SECTION II. STORE IN A COOL PLACE AWAY FROM DIRECT SUNLIGHT OR ANY SOURCE OF IGNITION. DO NOT STORE AT TEMPERATURES ABOVE 120 DEGREES F.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THIS PRODUCT CAN BE HARMFUL OR FATAL.

SECTION X - HHS RATINGS

HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0 PERSONAL PROTECTION: G

SECTION XI - DISCLAIMER

THE INFORMATION CONTAINED HEREIN 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.