

MATERIAL SAFETY DATA SHEET

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MSDS Number: RAL5005 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: SIGNAL BLUE TOUCH-UP PAINT
HMIS Ratings:

Health: Moderate(2)
 Flammability: Extreme(4)
 Instability/Reactivity: Minimal(0)
 Personal Protective Equipment: X

NFPA Ratings:

Other:

EMERGENCY OVERVIEW
 MAY BE FATAL IF SWALLOWED.
 HARMFUL IF INHALED.
 HARMFUL IF ABSORBED THROUGH SKIN.
 CAUSES EYE IRRITATION.
 CAUSES SKIN IRRITATION.
 VAPORS IRRITATING TO EYES AND RESPIRATORY TRACT.
 EXTREMELY FLAMMABLE LIQUID AND VAPOR.
 VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION.
 EXTREMELY FLAMMABLE AEROSOL.
 CONTENTS UNDER PRESSURE.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
ETHYLBENZENE	100-41-4	2.45	100 PPM 125 PPM	100 PPM 125 PPM		ORAL (RAT) 3500 MG/KG; DERMAL (RABBIT) 20574 MG/KG	(RAT) 17623 MG/M ³
Notes	VAPOR PRESSURE: 19 MMHG @ 68°F LEL 1.2 IARC (2B), CALIFORNIA PROP 65 (CANCER 6/11/2004)						
N-BUTANE	106-97-8	6	800 PPM NO INFORMATION	800 PPM		ORAL/DERMAL: Not Available	(RAT) 658000 MG/M ³
Notes	VAPOR PRESSURE: 879.1 MMHG @ 68°F LEL 1.8						
PROPANE	74-98-6	18	1000 PPM NO INFORMATION	NOT APPLICABLE NOT APPLICABLE		NOT APPLICABLE	NO INFORMATION
Notes	VAPOR PRESSURE: 5585.2 MMHG @ 68°F LEL 2.2						
TITANIUM DIOXIDE	13463-67-7	1	10 MG/M ³ NO INFORMATION	10 MG/M ³		ORAL (RAT) >24000 MG/KG	(RAT) 6820 MG/M ³
Notes							
XYLENE	1330-20-7	11	100 PPM 150 PPM	100 PPM 150 PPM		ORAL (RAT) 4300 MG/KG; DERMAL (RABBIT) 1700 MG/KG	(RAT) 18892 MG/M ³
Notes	VAPOR PRESSURE: 6.6 MMHG @ 68°F LEL 1.0						
ACETONE	67-64-1	37	750 PPM 1000 PPM	750 PPM 1000 PPM		ORAL (RAT) 5340 MG/KG; DERMAL (RABBIT) 20000 MG/KG	(RAT) 70852 MG/M ³

Notes	VAPOR PRESSURE: 231.0 MMHG @ 68°F LEL 2.6						
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-6	6	NOT ESTABLISHED NOT ESTABLISHED			ORAL (RAT) 8500 MG/KG; DERMAL (RAT) 5000 MG/KG	(RAT) 5321 MG/M ³
Notes	VAPOR PRESSURE: 3.7 MMHG @ 68°F LEL 1.3						
Other:	THIS PRODUCT CONTAINS ONE OR MORE REPORTED CARCINOGENS OR SUSPECTED CARCINOGENS WHICH ARE NOTED NTP, IARC, OR OSHA-Z IN THE OTHER LIMITS RECOMMENDED COLUMN. THIS SUBSTANCE IS CLASSIFIED AS A HAZARDOUS AIR POLLUTANT.						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes:	MAY CAUSE SEVERE EYE IRRITATION
Skin:	MAY CAUSE SKIN IRRITATION. PROLONGED CONTACT WITH THE SKIN CAN CAUSE CHEMICAL BURNS. HARMFUL IF ABSORBED THROUGH THE SKIN. MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS.
Ingestion:	MODERATELY TOXIC. MAY CAUSE STOMACH DISCOMFORT, NAUSEA, VOMITING, DIARRHEA, AND NARCOSIS. ASPIRATION OF MATERIAL INTO THE LUNGS IF SWALLOWED OR IF VOMITING OCCURS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. MAY CAUSE NAUSEA, VOMITING AND DIARRHEA.
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. EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION. LIQUID OR VAPOR MAY BE IRRITATING TO SKIN, EYES, THROAT OR LUNGS. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THIS PRODUCT CAN BE HARMFUL OR FATAL.

Medical Conditions

Aggravated by Exposure:

IV. FIRST AID MEASURES

Eyes:	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION, IF IRRITATION PERSISTS. FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES.
Skin:	WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. WASH THOROUGHLY WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. REMOVE CONTAMINATED CLOTHING. LAUNDER 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.
Inhalation:	REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION. FOR INHALATION OVEREXPOSURE MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES

Flash Point: > -25°F

Lower Flammability Limit: 1.0

Upper Flammability Limit: 13.1

Extinguishing Agents: USE DRY CHEMICAL, CARBON DIOXIDE OR CHEMICAL FOAM.

Fire Fighting Procedures: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. 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°F. AEROSOL CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. PRODUCT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A LONG DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. 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.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: REMOVE ALL SOURCES OF IGNITION. AVOID HEAT, SPARKS, FLAMES AND ANYTHING WHICH COULD CAUSE FIRE. VENTILATE AREA OF SPILL AND ADJACENT LOW LYING AREAS. AVOID BREATHING SOLVENT VAPORS. REMOVE WITH INERT ABSORBENT MATERIALS AND NON-SPARKING TOOLS.

VII. HANDLING AND STORAGE

Other: HANDLING:
WASH HANDS THOROUGHLY AFTER HANDLING. THIS PRODUCT CONTAINS CHEMICALS WHICH ARE LISTED ON CALIFORNIA'S PROPOSITION 65 LIST. IF THE PRODUCT IS TO BE SOLD OR USED IN CALIFORNIA A CLEAR AND REASONABLE WARNING MUST BE PROVIDED SUCH AS:
WARNING!
THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

STORAGE:
STORE IN A COOL DRY AREA WITH VENTILATION SUITABLE FOR STORING MATERIALS SHOWN IN SECTION 2. KEEP AWAY FROM HEAT, SPARKS AND FLAME.
STORE IN A COOL PLACE AWAY FROM DIRECT SUNLIGHT OR ANY SOURCE OF IGNITION. DO NOT STORE AT TEMPERATURES ABOVE 120°F.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD RECOMMENDED IF CONTACT WITH THE EYES IS LIKELY.

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

Respiratory: IF WORKPLACE EXPOSURE LIMITS ARE EXCEEDED FOR ANY COMPONENT, A NIOSH/OSHA APPROVED RESPIRATOR SUITABLE FOR COMPONENTS LISTED IS RECOMMENDED.

Engineering:	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.
Other:	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.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	LOWER: 1.0°F HIGHER: 302°F
Specific Gravity:	.765
Vapor Pressure:	5585.20 MMHG @ 20°C
Vapor Density:	3.7
Volatile Content:	4.523 (CALCULATED, LB/GL) 541.99 (CALCULATED, GM/L) % VOLATILE BY WEIGHT: 82.5040 % VOLATILE BY VOLUME: 89.2608
Other:	FORMULA WEIGHT PER VOLUME: 6.3692 LB/GL EVAPORATION RATE: 7.7 (N-BUTYL ACETATE = 1) VISCOSITY: NOT AVAILABLE

X. STABILITY AND REACTIVITY

Stability:	THE PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.
Hazardous Polymerization:	NO HAZARDOUS POLYMERIZATION WILL OCCUR UNDER NORMAL CONDITIONS.
Hazardous Decomposition Products:	THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE, AND UNIDENTIFIABLE ORGANIC MATERIALS. PRODUCT MAY PRODUCE TOXIC FUMES WHEN BURNED.
Incompatible Products:	STRONG OXIDIZING AGENTS.
Conditions To Avoid:	AVOID CONTACT WITH HEAT, SPARKS, AND OPEN FLAME. PRODUCT MAY EXPLODE IF HEATED. KEEP COOL, AVOID EXPOSURE TO HEAT.

XI. TOXICOLOGICAL INFORMATION

Other:	NO SPECIFIC INFORMATION IS AVAILABLE.
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XII. ECOLOGICAL INFORMATION

Ecotoxicity:	
Other:	NO SPECIFIC ECOLOGICAL INFORMATION IS AVAILABLE FOR THIS PRODUCT.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method:	PLACE IN CLOSED CONTAINERS. DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.
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XIV. TRANSPORT INFORMATION

Other:	GROUND SHIPMENT OF LIMITED OR EXCEPTED QUANTITIES OF AEROSOLS OR LIQUID PAINT IN CONTAINERS OF 1 QUART OR LESS: CONSUMER COMMODITY, ORM-D GROUND SHIPMENT OF LIQUID PAINT IN CONTAINERS MORE THAN 1 QUART:
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PAINT, FLAMMABLE LIQUID, UN1263, CLASS 3, GROUP II (REGULATORY SOURCES: DOT 49CFR 172.101)
 AIR SHIPMENT OF LIMITED OR EXCEPTED QUANTITIES OF AEROSOLS OR LIQUID PAINT IN CONTAINERS OF 1 QUART OR LESS: CONSUMER COMMODITY, ID 8000, CLASS 9 MISCELLANEOUS LABEL (REGULATORY SOURCES: IATA QUANTITY EXEMPTIONS – TABLE 2.8.4, 2.7.A, 2.7.5, PACKAGING INSTRUCTION: 910) OR AEROSOLS, FLAMMABLE, UN1950, CLASS 2.1 LABEL (REGULATORY SOURCES: IATA QUANTITY EXEMPTIONS – TABLE 2.8.1, 2.8.4, PACKAGING INSTRUCTIONS: Y203
 WATER TRANSPORTATION
 PROPER SHIPPING NAME: AEROSOL
 HAZARD CLASS OR DIVISION: 2.1
 IDENTIFICATION NUMBER: UN1950
 PACKAGING GROUP: II
 SUBSIDIARY RISK : NO
 MARINE POLLUTANT (YES OR NO): NO
 POISON INHALATION HAZARD (YES OR NO): NO
 24 HOUR EMERGENCY #: 800-424-9300
 EMS #: 800-424-9300

XV. REGULATORY INFORMATION

TSCA Status: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE TSCA SECTION 8 INVENTORY.

EPA Sara Title III Chemical Listings: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
 Chemical ETHYLBENZENE CAS# 100-41-4 %Wt. 2.4500
 Chemical XYLENE CAS# 1330-20-7 %Wt. 10.5990

Supplemental State

Compliance Information:

California: THIS PRODUCT CONTAINS CHEMICAL(S) WHICH ARE LISTED ON CALIFORNIA'S PROPOSITION 65 LIST. IF THE PRODUCT IS TO BE SOLD OR USED IN CALIFORNIA A CLEAR AND REASONABLE WARNING MUST BE PROVIDED SUCH AS:
 WARNING! THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

New Jersey: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT:
 Chemical ALKYD RESIN SOLIDS CAS # NONE

Pennsylvania: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%
 Chemical ALKYD RESIN SOLIDS CAS # NONE
 Chemical ACRYLIC POLYMER CAS # NOT LISTED

Other: CANADA:
 THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.