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T.J. RONAN PAINT CORP.
MATERIAL SAFETY DATA SHEET
FOR PROFESSIONAL GRAPHIC ARTS COATINGS

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME: T.J. RONAN PAINT CORP.
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PRODUCT CLASS: PRIME-ALL

PRODUCT COLORS: WHITE - RED OXIDE

SECTION II-A HAZARDOUS INGREDIENTS

ALL THE ABOVE PRODUCTS CONTAIN ALUMINUM SILICATE (CAS #1332-58-7)

CHEMICAL NAME	CAS #	WEIGHT % LESS THAN	-----EXPOSURE LIMITS-----				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
ALUMINUM SILICATE	1332-58-7	15%	2 mg/M3	N.E.	5 mg/M3	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-B HAZARDOUS INGREDIENTS

ALL THE ABOVE PRODUCTS CONTAIN ETHYLENE GLYCOL MONOBUTYL ETHER (CAS #111-76-2)

CHEMICAL NAME	CAS #	WEIGHT % LESS THAN	-----EXPOSURE LIMITS-----				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	5%	25 PPM	50 PPM	50 PPM	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-C HAZARDOUS INGREDIENTS

ALL THE ABOVE PRODUCTS CONTAIN BARIUM COMPOUNDS (CAS #10048-98-3)

CHEMICAL NAME	CAS #	WEIGHT % LESS THAN	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL -CEILING	
BARIUM COMPOUNDS	10048-98-3	5%	.5 mg/M3	1.0 mg/M3.	.5 mg/M3.	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-D HAZARDOUS INGREDIENTS

ALL THE ABOVE PRODUCTS CONTAIN ZINC COMPOUND (CAS #1314-13-2)

CHEMICAL NAME	CAS #	WEIGHT % LESS THAN	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL -CEILING	
ZINC COMPOUND	1314-13-2	5%	5 mg/M3	15 mg/M3.	15 mg/M3.	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-E HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN TITANIUM DIOXIDE (CAS #13463-67-7)

WHITE

CHEMICAL NAME	CAS #	WEIGHT % LESS THAN	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL -CEILING	
TITANIUM DIOXIDE	13463-67-7	15%	10 mg/M3	N. E.	15 mg/M3	N. E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-E HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN IRON (III) OXIDE (CAS# 1309-37-1)

RED OXIDE

CHEMICAL NAME	CAS #	WEIGHT % LESS THAN	EXPOSURE LIMITS				
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
IRON (III) OXIDE	1309-37-1	15%	5 mg/M3	N. E.	5 mg/m3	N. E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION III - PHYSICAL DATA

BOILING RANGE: 212° F – 340° F

ODOR: LOW

APPEARANCE: WHITE & RED OXIDE
LIQUIDS

SOLUBILITY IN H₂O: WATER SOLUBLE

VOLATILE BY WEIGHT: - 40.4% - 42.9% **VOLATILE BY VOLUME:** - 56.7% - 58.7%

VOC: - LESS THAN 100 GRAMS/LITER

VAPOR DENSITY: HEAVIER THAN AIR

SPECIFIC GRAVITY: 1.3653 TO 1.3750

EVAPORATION RATE: SLOWER THAN BUTYL
ACETATE

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N. A.

LEL: 1.1% **UEL:** 10.6%

EXTINGUISHING MEDIA: WATER FOG, DRY CHEMICAL, CARBON DIOXIDE, FOAM.

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIAL CAN SLATTER ABOVE 100° C/ 212° F.
POLYMER FILM CAN BURN.

SPECIAL FIREFIGHTING PROCEDURES: DO NOT BREATHE FUMES. WEAR SELF CONTAINED
BREATHING APPARATUS (PRESSURE DEMAND, MSHA/NOISH-APPROVED OR EQUIVALENT) AND
FULL PROTECTIVE GEAR. WATER MAY SPREAD FIRE. WATER SPRAY SHOULD BE USED TO COOL
CONTAINERS EXPOSED TO FIRE.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: VAPOR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA, DIZZINESS, IRRITATION OF THE NOSE, THROAT AND LUNGS.

SKIN CONTACT: REPEATED OR PROLONGED CONTACT MAY CAUSE IRRITATION, DEFATTING AND DERMATITIS.

EYE CONTACT: LIQUID CONTACT CAUSES IRRITATION, REDNESS, TEARING, BLURRED VISION.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY. GET MEDICAL ATTENTION.

SKIN CONTACT: REMOVE SATURATED CLOTHING. WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. LAUNDRY SATURATED CLOTHING AND CLEAN SHOES BEFORE REUSE.

EYE CONTACT: FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. SLOWLY DILUTE WITH 3 TO 4 GLASSES OF WATER AND SEEK MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, SKIN.

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: MAY PRODUCE TOXIC FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE AND/OR CARBON DIOXIDE. DECOMPOSITION IS DEPENDENT ON TIME AND TEMPERATURE.

CONDITIONS TO AVOID: ONSET OF DECOMPOSITION IS 177° C / 350° F.

INCOMPATIBILITY: ISOLATE FROM OXIDIZERS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: FLOOR MAY BE SLIPPERY. USE CARE TO AVOID FALLING. TAKE UP WITH INERT ABSORBENT MATERIAL AND SEAL TIGHTLY FOR PROPER DISPOSAL. TRANSFER LIQUID TO CONTAINERS FOR PROPER RECOVERY OR DISPOSAL AND TRANSFER SOLID DIKING MATERIAL TO SEPARATE CONTAINERS FOR DISPOSAL. KEEP SPILLS AND CLEANING RUNOFF OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

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

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. WEAR RESPIRATOR TO AVOID BREATHING SPRAY MIST OR FUMES OR IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL LIMITS (SECTION II). USE A NOISH - APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.

VENTILATION: PROVIDE NATURAL OR LOCAL EXPLOSION PROOF VENTILATION ADEQUATE TO INSURE VAPOR CONCENTRATIONS ARE KEPT BELOW EXPOSURE LIMITS.

PROTECTIVE GLOVES: WEAR IMPERVIOUS CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: WEAR CHEMICAL RESISTANT GOGGLES TO PREVENT EYE CONTACT.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING AS REQUIRED TO PREVENT SKIN CONTACT. EYE WASH STATION SHOULD BE AVAILABLE.

HYGIENIC PRACTICES: WASH WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSING.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID CONTACT WITH VAPORS, FUMES AND SPRAY MIST. USE ONLY IN WELL VENTILATED AREA. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM STRONG OXIDIZING AGENTS IN A COOL DRY PLACE WITH ADEQUATE VENTILATION. STORAGE TEMPERATURE MINIMUM 40° F – MAXIMUM 90° F. KEEP FROM FREEZING

OTHER PRECAUTIONS: WHEN USING DO NOT EAT, DRINK OR SMOKE. UNIFORMS OR CLOTHING CONTAINING PAINT RESIDUE SHOULD NOT BE LAUNDERED WITH HOUSEHOLD GARMENTS. DO NOT TAKE INTERNALLY. OBSERVE LABEL PRECAUTIONS.

SECTION X - REGULATORY INFORMATION

SARA NOTIFICATION

TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) HAS CREATED NEW REPORTING REQUIREMENTS FOR COMPANIES THAT HANDLE CERTAIN CHEMICALS AND CHEMICAL CATEGORIES. THE FOLLOWING IS A LIST OF CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA (40 CFR PART 372) AND THE PRODUCTS THAT CONTAIN THOSE CHEMICALS.

- 1). ETHYLENE GLYCOL MONOBUTYL ETHER (CAS #111-76-2). WEIGHT % IS LESS THAN 5%.
- 2). BARIUM COMPOUNDS (CAS #10048-98-3). WEIGHT % IS LESS THAN 5%.
- 3). ZINC COMPOUNDS (CAS #1314-13-2). WEIGHT % IS LESS THAN 5%.

CALIFORNIA PROPOSITION 65

WARNING: THESE PRODUCTS AND THE CONTAINERS THEY ARE IN MAY CONTAIN DETECTABLE AMOUNTS OF ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE SPECIFIC INFORMATION REQUEST THE CALIFORNIA VERSION MATERIAL SAFETY DATA SHEET ON INDIVIDUAL PRODUCTS.

LEGEND: N. A. - NOT APPLICABLE N. E. - NOT ESTABLISHED
 N. D. - NOT DETERMINED

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.