

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

SECTION I - PRODUCT IDENTIFICATION

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PRODUCT CLASS: BULLETIN COLOR

<u>PRODUCT CODE:</u>	021 BLACK	134 CHROME YELLOW
	100 VERMILION	135 GOLDEN YELLOW
	1100 RED ORANGE	140 LIGHT GREEN
	101 WHITE	142 EMERALD GREEN
	102 FIRE RED	143 PROCESS GREEN
	1102 SCARLET RED	144 MEDIUM GREEN
	103 ALUMINUM	145 PTHALO GREEN
	104 BRIGHT RED	148 DARK GREEN
	1104 CHERRY RED	150 BLUE GREEN
	105 IMITATION SILVER	152 LIGHT BLUE
	106 CARMINE	153 PTHALO BLUE
	107 IMITATION GOLD	154 PROCESS BLUE
	108 MAROON	155 REFLEX BLUE
	114 MEDIUM BROWN	156 BRILLIANT BLUE
	115 DARK BROWN	158 DARK BLUE
	116 IVORY	162 PURPLE
	124 MEDIUM ORANGE	164 PROCESS PURPLE
	125 BRIGHT ORANGE	165 RUBINE RED
	129 PROCESS YELLOW	166 MAGENTA
	130 PRIMROSE YELLOW	180 LIGHT GRAY
	131 LIGHT YELLOW	SHB SHADING BLACK
	132 LEMON YELLOW	SHW SHADING WHITE
	133 MEDIUM YELLOW	SW101 SUPER WHITE

SECTION II-A HAZARDOUS INGREDIENTS

ALL THE ABOVE PRODUCTS CONTAIN ALIPHATIC DISTILLATE (CAS# 8052-41-3)

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
ALIPHATIC DISTILLATE	8052-41-3	18 - 48	100 PPM	NO INFO	500 PPM	NO INFO	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

THIS PRODUCT MAY CONTAIN PIGMENTS WHICH MAY BECOME A DUST NUISANCE WHEN REMOVED BY ABRASIVE BLASTING, SANDING OR GRINDING.

SECTION II-B HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN LEAD MOLYBDATE CHROMATE (CAS #12656-85-8)

100 VERMILION - 102 FIRE RED - 104 BRIGHT RED - 124 MEDIUM ORANGE

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
LEAD MOLYBDATE CHROMATE	12656-85-8	9 - 24	0.05 mg/M3	NO INFO	0.05 mg/M3	10 mg/M3	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-C HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN LEAD SULFOCHROMATE (CAS #1344-37-2)

130 PRIMROSE YELLOW - 132 LEMON YELLOW - 134 CHROME YELLOW - 124 MEDIUM ORANGE

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
LEAD SULFO CHROMATE	1344-37-2	12 - 29	0.05 mg/M3	NO INFO	0.05 mg/M3	10 mg/M3	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-D HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN BARIUM SULFATE (CAS #7727-43-7)

100 VERMILION - 102 FIRE RED - 104 BRIGHT RED - 124 MEDIUM ORANGE - 130 PRIMROSE YELLOW
132 LEMON YELLOW - 134 CHROME YELLOW

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
BARIUM SULFATE	7727-43-7	2 - 8	10 mg/M3	NO INFO	10 mg/M3	NO INFO	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-E HAZARDOUS INGREDIENTS

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

1100 RED ORANGE - 101 WHITE - 107 IMITATION GOLD - 116 IVORY - 125 BRIGHT ORANGE
 129 PROCESS YELLOW - 130 PRIMROSE YELLOW - 131 LIGHT YELLOW - 133 MEDIUM YELLOW
 135 GOLDEN YELLOW - 140 LIGHT GREEN - 142 EMERALD GREEN - 143 PROCESS GREEN
 150 BLUE GREEN - 152 LIGHT BLUE - 154 PROCESS BLUE - 155 REFLEX BLUE - 156 BRILLIANT BLUE
 158 DARK BLUE - 162 PURPLE - 164 PROCESS PURPLE - 166 MAGENTA - 180 LIGHT GRAY
 SHW SHADING WHITE - SW101 SUPER WHITE

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
TITANIUM DIOXIDE	13463-67-7	1-35	10 mg/M3	NO INFO	15 mg/M3	15 mg/M3	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-F HAZARDOUS INGREDIENTS

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

21 BLACK - 1100 RED ORANGE - 1102 SCARLET RED - 1104 CHERRY RED - 125 BRIGHT ORANGE
 129 PROCESS YELLOW - 131 LIGHT YELLOW - 133 MEDIUM YELLOW - 135 GOLDEN YELLOW
 165 RUBINE RED

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1-4	25 PPM	50 PPM	50 PPM	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-G HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN PETROLEUM DISTILLATE (CAS# 64742-95-6)

21 BLACK - 1100 RED ORANGE - 1102 SCARLET RED - 1104 CHERRY RED - 125 BRIGHT ORANGE
 131 LIGHT YELLOW - 135 GOLDEN YELLOW

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
PETROLEUM DISTILLATE	64742-95-6	1-4	50 PPM	NO INFO	NO INFO	NO INFO	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-H HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN 1,2,4 TRIMETHYLBENZENE (CAS# 95-63-6)

21 BLACK - 1102 SCARLET RED - 1104 CHERRY RED - 125 BRIGHT ORANGE - 131 LIGHT YELLOW
135 GOLDEN YELLOW

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
1,2,4 TRIMETHYL BENZENE	95-63-6	1 - 2	50 PPM	N.E.	N.E.	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-I HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN ALUMINUM PASTE (CAS# 7429-90-5)

103 ALUMINUM - 105 IMITATION SILVER

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
ALUMINUM PASTE	7429-90-5	13 - 24	50 PPM	N.E.	N.E.	N.E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-J HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN CHROMIUM OXIDE (CAS# 1308-38-9).

144 MEDIUM GREEN - 148 DARK GREEN

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
CHROMIUM OXIDE	1308-38-9	11 - 16	50 PPM	NO INFO	NO INFO	NO INFO	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-K HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN AROMATIC DISTILLATE (CAS# 1330-20-7)

21 BLACK - 155 REFLEX BLUE - SHB SHADING BLACK - SHW SHADING WHITE

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
AROMATIC DISTILLATE	1330-20-7	1-2	100 PPM	150 PPM	NO INFO	NO INFO	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-L HAZARDOUS INGREDIENTS

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

108 MAROON - 114 MEDIUM BROWN - 115 DARK BROWN

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
IRON (III) OXIDE	1309-37-1	2-7	5 mg/M3	N. E.	5 mg/m3	N. E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION II-M HAZARDOUS INGREDIENTS

THE FOLLOWING PRODUCTS CONTAIN CARBON BLACK (CAS# 1333-86-4)

21 BLACK - SHB SHADING BLACK

CHEMICAL NAME	CAS #	WEIGHT %	EXPOSURE LIMITS				SKIN
			(TLV-TWA)	TLV-STEL	PEL-TWA	PEL-CEILING	
CARBON BLACK	1333-86-4	3-7	3.5 mg/M3	N. E.	3.5 mg/M3	N. E.	NO

(SEE SECTION X FOR ABBREVIATION LEGEND)

SECTION III - PHYSICAL DATA

BOILING RANGE: 310-395 DEG. F**SOLUBILITY: NEGLIGIBLE****DENSITY: 7.40 - 10.90 LB/GAL.****MAXIMUM VOCS: 3.76 LB/GAL - 450 GRAMS/LITER****VAPOR DENSITY: HEAVIER THAN AIR****EVAPORATION RATE: SLOWER THAN PRODUCT
BUTYL ACETATE**

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:**OSHA - COMBUSTIBLE LIQUID - CLASS II****DOT - COMBUSTIBLE LIQUID****FLASH POINT: 107 DEG F (TCC)****LEL: 0.9% UEL: 6.0%****EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM.****UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.****SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF CONTAINED BREATHING APPARATUS. WATER MAY SPREAD FIRE. WATER SPRAY MAY BE USED TO COOL CONTAINERS EXPOSED TO FIRE.**

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: NAUSEA, DIZZINESS, HEADACHE, VOMITING.

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

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

INGESTION: CAN CAUSE IRRITATION OF THE DIGESTIVE TRACT, NAUSEA, VOMITING AND DIARRHEA. IN SEVERE CASES INGESTION CAN BE FATAL. ASPIRATION INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

PRODUCTS CONTAINING LEAD CHROMATE: (SEE SECTION II-B AND II-C) CHRONIC, REPEATED AND PROLONGED EXPOSURES MAY CAUSE DELAYED EFFECTS INVOLVING THE BLOOD, GASTROINTESTINAL, NERVOUS AND REPRODUCTIVE SYSTEMS. LEAD CHROMATE IS CURRENTLY LISTED AS A SUSPECTED CARCINOGEN - RISK OF CANCER DEPENDS ON ROUTE, DURATION AND LEVEL OF EXPOSURE. LEAD CHROMATE INGESTION OR PROLONGED INHALATION MAY CAUSE DELAYED INJURY INVOLVING THE KIDNEYS AND THE BLOOD, GASTROINTESTINAL, NERVOUS AND REPRODUCTIVE SYSTEMS. LEAD CHROMATE INHALATION MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY TRACT. PROLONGED OR REPEATED EXPOSURE FROM POOR HYGIENE, HOUSEKEEPING OR HANDLING PRACTICES CAUSES LEAD POISONING. EARLY SYMPTOMS ARE FATIGUE, DISTURBANCE OF SLEEP AND CONSTIPATION, WITH MORE SEVERE EXPOSURES FOLLOWED BY COLIC, ANEMIA AND NEURITIS. PROLONGED OVEREXPOSURE CAN SEVERELY DAMAGE RED BLOOD CELL FORMATION, KIDNEYS AND NERVOUS SYSTEM. OTHER SYMPTOMS INCLUDE LOSS OF APPETITE, METALLIC TASTE IN MOUTH, ANXIETY, NAUSEA, PALLOR, HEADACHE, DIZZINESS AND HYPERTENSION.

THE OSHA LEAD STANDARD REPORTS THAT LEAD MAY IMPAIR THE REPRODUCTIVE SYSTEM OF BOTH MEN AND WOMEN. DAMAGE MAY ALSO BE CAUSED TO AN UNBORN FETUS.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PRE-EXISTING EYE, SKIN OR RESPIRATORY DISORDERS. ANEMIA.

EMERGENCY AND FIRST AID PROCEDURES:

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

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

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

INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, SKIN.

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE AND/OR CARBON DIOXIDE.

CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAME.

INCOMPATIBILITY: ISOLATE FROM OXIDIZERS, HEAT, SPARKS AND OPEN FLAME.

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: REMOVE ALL SOURCES OF IGNITION. COVER WITH INERT ABSORBENT MATERIAL.

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

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION III) USE A NOISH - APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.

VENTILATION: USE EXPLOSION PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES.

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

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING AS REQUIRED TO PREVENT SKIN CONTACT.

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

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM STRONG OXIDIZING AGENTS IN A COOL DRY PLACE WITH ADEQUATE EXPLOSION PROOF VENTILATION. AVOID BREATHING VAPORS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

OTHER PRECAUTIONS: DO NOT WELD, HEAT OR DRILL ON OR NEAR CONTAINER; EVEN EMPTIED CONTAINERS CAN CONTAIN EXPLOSIVE VAPORS. 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). LEAD MOLYBDATE CHROMATE (CAS #12656-85-8) (SEE PAGE 2 SECTION II-B FOR PRODUCT NAMES AND %).**
- 2). LEAD SULFOCHROMATE (CAS #1344-37-2) (SEE PAGE 2 SECTION II-C FOR PRODUCT NAMES AND %).**
- 3). ALUMINUM - (CAS# 74929-90-5) (SEE PAGE 4 SECTION II-I FOR PRODUCT NAMES AND %).**
- 4). ETHYLENE GLYCOL MONOBUTYL ETHER (CAS# 111-76-2) (SEE PAGE 3 SECTION II-F FOR PRODUCT NAMES AND %).**
- 5). CHROMIUM OXIDE (CAS# 1308-38-9) (SEE PAGE 4 SECTION II-J FOR PRODUCT NAMES AND %).**
- 6). AROMATIC DISTILLATE (CAS# 1330-20-7) (SEE PAGE 5 SECTION II-K FOR PRODUCT NAMES AND %).**

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.