

Engravers Enamel

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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DATE: 03/30/07

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PRODUCT CLASS: QUICK DRY BACKGROUND ENAMEL

HMIS RATINGS: HEALTH 2 FIRE 2 REACTIVITY 0 PERSONAL PROTECTION J

|                      |                   |                    |
|----------------------|-------------------|--------------------|
| <u>PRODUCT CODE:</u> | 021 BLACK         | 135 GOLDEN YELLOW  |
|                      | 1100 RED ORANGE   | 142 EMERALD GREEN  |
|                      | 101 WHITE         | 144 MEDIUM GREEN   |
|                      | 1102 SCARLET RED  | 148 DARK GREEN     |
|                      | 1104 CHERRY RED   | 150 BLUE GREEN     |
|                      | 108 MAROON        | 152 LIGHT BLUE     |
|                      | 114 MEDIUM BROWN  | 154 PROCESS BLUE   |
|                      | 115 DARK BROWN    | 156 BRILLIANT BLUE |
|                      | 116 IVORY         | 158 DARK BLUE      |
|                      | 125 BRIGHT ORANGE | 180 LIGHT GRAY     |
|                      | 131 LIGHT YELLOW  | HH HIGH HIDE WHITE |
|                      | 133 MEDIUM YELLOW | M7233 DELUXE WHITE |

SECTION II-A - HAZARDOUS INGREDIENTS

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

| -----EXPOSURE LIMITS----- |           |          |           |          |         |             |      |
|---------------------------|-----------|----------|-----------|----------|---------|-------------|------|
| CHEMICAL NAME             | CAS #     | WEIGHT % | (TLV-TWA) | TLV-STEL | PEL-TWA | PEL-CBILING | SKIN |
| ALIPHATIC<br>DISTILLATE   | 8052-41-3 | 35 - 45  | 100 PPM   | NO INFO  | 500 PPM | NO INFO     | NO   |

(SEE SECTION X FOR ABBREVIATION LEGEND)

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

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## SECTION II-B HAZARDOUS INGREDIENTS

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

1100 RED ORANGE - 101 WHITE - 116 IVORY - 125 BRIGHT ORANGE - 131 LIGHT YELLOW  
133 MEDIUM YELLOW - 135 GOLDEN YELLOW - 142 EMERALD GREEN - 150 BLUE GREEN  
152 LIGHT BLUE - 154 PROCESS BLUE - 156 BRILLIANT BLUE 158 DARK BLUE - 180 LIGHT GRAY  
HIGH HIDE WHITE - M7233 DELUXE WHITE

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| -----EXPOSURE LIMITS----- |            |          |           |          |          |              |      |
|---------------------------|------------|----------|-----------|----------|----------|--------------|------|
| CHEMICAL NAME             | CAS #      | WEIGHT % | (TLV-TWA) | TLV-STEL | PEL-TWA  | PEL -CEILING | SKIN |
| TITANIUM DIOXIDE          | 13463-67-7 | 2 - 40   | 10 mg/M3  | NO INFO  | 15 mg/M3 | 15 mg/M3     | NO   |

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(SEE SECTION X FOR ABBREVIATION LEGEND)

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## SECTION II-C HAZARDOUS INGREDIENTS

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

131 LIGHT YELLOW - 133 MEDIUM YELLOW - 135 GOLDEN YELLOW - 150 BLUE GREEN

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| -----EXPOSURE LIMITS-----       |          |          |           |          |         |              |      |
|---------------------------------|----------|----------|-----------|----------|---------|--------------|------|
| CHEMICAL NAME                   | CAS #    | WEIGHT % | (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   |

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(SEE SECTION X FOR ABBREVIATION LEGEND)

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## SECTION II-D HAZARDOUS INGREDIENTS

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

144 MEDIUM GREEN - 148 DARK GREEN

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| -----EXPOSURE LIMITS----- |           |          |           |          |         |              |      |
|---------------------------|-----------|----------|-----------|----------|---------|--------------|------|
| CHEMICAL NAME             | CAS #     | WEIGHT % | (TLV-TWA) | TLV-STEL | PEL-TWA | PEL -CEILING | SKIN |
| CHROMIUM OXIDE            | 1308-38-9 | 9 - 20   | 50 PPM    | NO INFO  | NO INFO | NO INFO      | NO   |

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(SEE SECTION X FOR ABBREVIATION LEGEND)

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## SECTION II-E HAZARDOUS INGREDIENTS

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

21 BLACK - 142 EMERALD GREEN - 156 BRILLIANT BLUE

| -----EXPOSURE LIMITS----- |           |          |           |          |         |             |      |
|---------------------------|-----------|----------|-----------|----------|---------|-------------|------|
| CHEMICAL NAME             | CAS #     | WEIGHT % | (TLV-TWA) | TLV-STEL | PEL-TWA | PEL-CEILING | SKIN |
| AROMATIC DISTILLATE       | 1330-20-7 | 1 - 5    | 100 PPM   | 150 PPM  | NO INFO | NO INFO     | NO   |

(SEE SECTION X FOR ABBREVIATION LEGEND)

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## SECTION II-F HAZARDOUS INGREDIENTS

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

108 MAROON - 114 MEDIUM BROWN - 115 DARK BROWN

| -----EXPOSURE LIMITS----- |           |          |           |          |         |             |      |
|---------------------------|-----------|----------|-----------|----------|---------|-------------|------|
| CHEMICAL NAME             | CAS #     | WEIGHT % | (TLV-TWA) | TLV-STEL | PEL-TWA | PEL-CEILING | SKIN |
| IRON (III) OXIDE          | 1309-37-1 | 2 - 10   | 5 mg/M3   | N. E.    | 5 mg/m3 | N. E.       | NO   |

(SEE SECTION X FOR ABBREVIATION LEGEND)

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## SECTION II-G HAZARDOUS INGREDIENTS

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

21 BLACK

| -----EXPOSURE LIMITS----- |           |          |           |          |           |             |      |
|---------------------------|-----------|----------|-----------|----------|-----------|-------------|------|
| CHEMICAL NAME             | CAS #     | WEIGHT % | (TLV-TWA) | TLV-STEL | PEL-TWA   | PEL-CEILING | SKIN |
| 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)

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### SECTION III - PHYSICAL DATA

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|---------------------------------------------|---------------------------------|
| BOILING RANGE: 310-395 DEG. F               | VAPOR DENSITY: HEAVIER THAN AIR |
| SOLUBILITY: NEGLIGIBLE                      | EVAPORATION RATE: SLOWER THAN   |
| PRODUCT DENSITY: 7.70 - 10.90 LB/GAL.       | BUTYL ACETATE                   |
| MAXIMUM VOCS: 3.76 LB/GAL - 450 GRAMS/LITER |                                 |

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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|                                      |                              |
|--------------------------------------|------------------------------|
| FLAMMABILITY CLASSIFICATION:         | FLASH POINT: 107 DEG F (TCC) |
| OSHA - COMBUSTIBLE LIQUID - CLASS II | LEL: 0.9% UEL: 6.0%          |
| DOT - COMBUSTIBLE LIQUID             |                              |

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.

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## SECTION V - HEALTH HAZARD DATA

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### 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.

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.

WARNING: THIS PRODUCT AND THE CONTAINER IT IS IN CONTAIN DETECTABLE AMOUNTS OF ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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## SECTION VI - REACTIVITY DATA

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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.

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## SECTION VII - SPILL OR LEAK PROCEDURES

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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.

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## SECTION VIII - SAFE HANDLING AND USE INFORMATION

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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.

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## SECTION IX - SPECIAL PRECAUTIONS

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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.

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SECTION X - REGULATORY INFORMATION

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SARA NOTIFICATION

TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) HAS CREATED 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) (SEE PAGE 2 SECTION II-C FOR PRODUCT NAMES AND %).
- 2). CHROMIUM OXIDE (CAS# 1308-38-9) (SEE PAGE 2 SECTION II-D FOR PRODUCT NAMES AND %).
- 3). AROMATIC DISTILLATE (CAS# 1330-20-7) (SEE PAGE 3 SECTION II-E 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.