PRODUCT: 13004 ZINC CHROMATE SPRAY PAINT (YELLOW & GREEN)

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER
MANUFACTURED FOR:
MOELLER MARINE PRODUCTS CO.
801 NORTH SPRINGS ST
SPARTA
TENN. 38583
USA
931-739-8000

PRODUCT NAME
13004 ZINC CHROMATE SPRAY PAINT (YELLOW & GREEN)

CHEMICAL FAMILY
ALKYD BASED COATING.

PRODUCT CODE(S)
6-5605
6-5606
6-25421
6-25472

MOLECULAR WEIGHT
NOT APPLICABLE.

CHEMICAL FORMULA
NOT APPLICABLE.

TRADE NAMES & SYNONYMS
13004 ZINC CHROMATE SPRAY PAINT (YELLOW & GREEN)

PRODUCT USES
PRIMER

FORMULALAB BOOK #
F-11-362A/6521A

Section 02: COMPOSITION/INFORMATION INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>%</th>
<th>Exposure Limit</th>
<th>C.A.S. #</th>
<th>LD(50), Route, Species</th>
<th>LC(50) Route, Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>15-40</td>
<td>750 ppm</td>
<td>67-64-1</td>
<td>&gt;9750 mg/kg ORAL - RAT</td>
<td>&gt;10,000 ppm (4 hr) INHAL - RAT</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>7-13</td>
<td>50 ppm</td>
<td>108-88-3</td>
<td>5000 mg/kg ORAL - RAT</td>
<td>8000 ppm (4 hr) INHAL - RAT</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1-5</td>
<td>100 ppm</td>
<td>1330-20-7</td>
<td>4 g/kg ORAL - RAT</td>
<td>6350 ppm (4 hr) INHAL - RAT</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>0.1-1</td>
<td>100 ppm</td>
<td>100-41-4</td>
<td>5450 mg/kg ORAL-RAT</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL METHYL ETHER ACETATE</td>
<td>1-5</td>
<td>N/E</td>
<td>108-85-6</td>
<td>8500 mg/kg ORAL - RAT</td>
<td>&gt;4365 ppm (6 hr) INHAL - RAT</td>
</tr>
<tr>
<td>TALC (MAGNESIUM SILICATE HYDRATE)</td>
<td>1-5</td>
<td>2 mg/m3</td>
<td>14807-96-6</td>
<td>NOT AVAILABLE</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>LEAD CHROMATE PIGMENT (Lead Sulphochromate Yellow)</td>
<td>5-10</td>
<td>N/A</td>
<td>1344-37-2</td>
<td>&gt;2000mg/kg ORAL - RAT</td>
<td>N/A</td>
</tr>
<tr>
<td>ZINC CHROMATE</td>
<td>0.1-1.0</td>
<td>N/A</td>
<td>11103-86-9</td>
<td>640mg/kg ORAL - RAT</td>
<td>640mg/kg ORAL - RAT</td>
</tr>
<tr>
<td>SILICA, CRYSTALINE</td>
<td>0.1-1.0</td>
<td>10 mg/m3</td>
<td>112926-00-8</td>
<td>NOT AVAILABLE</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>ISOBUTANE</td>
<td>5-10</td>
<td>1000 ppm</td>
<td>75-28-5</td>
<td>NOT APPLICABLE</td>
<td>142-500 ppm (4h) INHAL - RAT</td>
</tr>
<tr>
<td>PROPANE</td>
<td>10-30</td>
<td>1000 ppm</td>
<td>74-98-6</td>
<td>NOT APPLICABLE</td>
<td>NOT AVAILABLE</td>
</tr>
</tbody>
</table>

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
INGESTION. MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
INHALATION. INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPPELLANT IS A SIMPLE ASPHYXIANT.
EYE CONTACT. MAY CAUSE IRRITATION.
SKIN ABSORPTION. NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.
SKIN CONTACT. MAY CAUSE IRRITATION.
EFFECTS OF ACUTE EXPOSURE. DIZZINESS, NAUSEA, IRRITATION TO SKIN & EYES.
EFFECTS OF CHRONIC EXPOSURE. SOLVENTS MAY CAUSE FATIGUE, DERMATITIS. MAY CAUSE EFFECTS OF CHRONIC LEAD TOXICITY. SEE SECTION 2.

EXPOSURE LIMIT OF MATERIAL.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE. IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.
Section 05: FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE (°C) ........................................ 243-465
SPECIAL PROCEDURES .................................................. WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.
FLAMMABILITY .................................................. EXTREMELY FLAMMABLE
IF YES, UNDER WHICH CONDITIONS? .................. EXCESSIVE HEAT, SPARKS AND OPEN FLAME
(UPPER FLAMMABLE LIMIT) ........................................ (12.6)
(% BY VOLUME) .................................................. 1.
EXPLOSION DATA .................................................. NOT APPLICABLE
SENSITIVITY TO STATIC DISCHARGE ..................... NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS .................. HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
AEROSOL FLAME PROJECTION CLASSIFIED AS ........>15cm BUT <100cm.
FLASHPOINT (°C), TAG CLOSED CUP (CONCENTRATE) ....... NONE.
LOWEST KNOWN VALUE IS ACETONE @ -18°C.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL .................................................. REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

Section 07: HANDLING AND STORAGE

STORAGE NEEDS .................................................. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
ENGINEERING CONTROLS ........................................... VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS). STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.
HANDLING PROCEDURES AND EQUIPMENT .................. NONE.
SYNERGISTIC MATERIALS ........................................... NONE.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/TYPE .................................................. WEAR CHEMICAL RESISTANT GLOVES.
RESPIRATORY/TYPE ........................................... USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHA TYPE 23C OR EQUIVALENT) IS RECOMMENDED. SAFETY GLASSES WITH SIDE SHIELDS. NOT NORMALLY REQUIRED.
EYE/TYPE .................................................. WEAR A FACE SHIELD AND, IN CASE OF INSUFFICIENT VENTILATION, AN APPROPRIATE BREATHING APPARATUS.
FOOTWEAR/TYPE .................................................. NONE.
OTHER/TYPE .................................................. NONE.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE .................................................. AEROSOL.
APPEARANCE .................................................. VARIOUS COLOURS.
ODOR .................................................. KETONE.
ODOR THRESHOLD ............................................... NOT AVAILABLE.
VAPOUR PRESSURE (PSIG)-AEROSOL .................. 55 - 65.
@ 20 °C .................................................. 57-143
BOILING POINT (°C)(CONC) ...................................... GREAER THAN 1.
EVAPORATION RATE ............................................. GREAER THAN 1.
n-BUTYL ACETATE = 1.
VAPOUR DENSITY (AIR=1) (BY WEIGHT) .............. NEGLIGIBLE.
SOLUBILITY IN WATER g/L (20°C) ...................... 0.09-0.03
pH .................................................. NOT APPLICABLE.
SPECIFIC GRAVITY (LIQUID) .................................. NOT AVAILABLE.
COEFFICIENT OF WATER/OIL DIST ........................... NOT AVAILABLE.
FREEZING POINT: (°C) .......................................... NOT AVAILABLE.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION .................. HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
CHEMICAL STABILITY ........................................... UNDER NORMAL CONDITIONS. NOT APPLICABLE.
YES .................................................. STRONG OXIDIZING AGENTS. NOT APPLICABLE.
NO, WHICH CONDITIONS? ...................................... NOT APPLICABLE.
COMPATIBILITY WITH OTHER SUBSTANCES: ............... NOT APPLICABLE.
NO, WHICH ONES? ........................................... NOT APPLICABLE.
PRODUCT: 13004 ZINC CHROMATE SPRAY PAINT (YELLOW & GREEN)

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS
TOLUENE - PROLONGED AND REPEATED EXPOSURE OF PREGNANT ANIMALS TO TOLUENE (LEVELS GREATER THAN APPROXIMATELY 1500 ppm) HAS BEEN REPORTED TO CAUSE ADVERSE FETAL DEVELOPMENTAL EFFECTS. XYLENE - HIGH EXPOSURES TO XYLENE IN SOME ANIMAL STUDIES, OFTEN AT LEVELS TOXIC TO THE MOTHER, AFFECTED EMBRYO/FETAL DEVELOPMENT. THE SIGNIFICANCE OF THIS FINDING TO HUMANS IS NOT KNOWN.

IRRITANT OF MATERIAL
SKIN/EYE IRRITANT.

SENSITIZING CAPABILITY OF MATERIAL
UNKNOWN.

CARCINOGENICITY/MUTAGENICITY
XYLENE - THIS PRODUCT CONTAINS ETHYLBENZENE (ETHYLBENZENE IS IN XYLENE).
ETHYLBENZENE HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS.
TOXICITY TESTS CARRIED OUT FOR CHRONIC EFFECTS AND MUTAGENICITY HAVE BEEN NEGATIVE. THE RELEVANCE OF THIS FINDING TO HUMANS IS UNCERTAIN. IARC HAS CLASSIFIED ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN.
LEAD IS A CARCINOGEN.

CARCINOGENICITY OF MATERIAL
LEAD CHROMATE PIGMENT CONTAIN A CHEMICAL THAT CAUSES BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TERATOGENICITY
NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL
NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Section 14: TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION
CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).
D.O.T. CLASSIFICATION
CONSUMER COMMODITY, ORM-D.

Section 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION
A,B,6,02A,D2B.
CNFC SECTION 3.3.5.
LEVEL 2.
CEPA (Canadian Environmental Protection Act)
ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

U.S. REGULATIONS:
HMIS RATING HEALTH
2 MODERATE HAZARD.
HMIS RATING FLAMMABILITY
4 SEVERE HAZARD.
HMIS RATING REACTIVITY
0 MINIMAL HAZARD.
NFPA CODE 30B
LEVEL 2.
HMIS RATING PERSONAL PROTECTION
B.
SARA 313 INFORMATION
CAS #: CHEMICAL NAME:
108-86-3 TOLUENE
1330-20-7 XYLENE
100-41-4 ETHYLBENZENE
1344-37-3 LEAD CHROMATE
11103-95-3 ZINC CHROMATE
CALIFORNIA PROPOSITION 65:
THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986:
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
CAS #: CHEMICAL NAME:
108-89-3 TOLUENE
100-41-4 ETHYLBENZENE IN XYLENE
1344-37-3 LEAD CHROMATE
TSCA (Toxic Substances Control Act)
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.
V.O.C.(M.I.R.)
COMPLIES WITH AVIATION AND MARINE PRIMER CATEGORY <2 g OZONE / g PRODUCT.

Section 16: OTHER INFORMATION

NOTICE FROM MOELLER MARINE INC.
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PREPARED BY
TECHNICAL SERVICES
PREPARATION DATE
Sep2200