



# MATERIAL SAFETY DATA SHEET

**CHROMATE INDUSTRIAL CORPORATION®**  
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**FOR CHEMICAL  
EMERGENCY**

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## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RED LION GRAY ENAMEL  
**PART NUMBER:** 74012

**DATE PREPARED:** APRIL 29, 2009

**PRODUCT TYPE:** PAINT

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## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

% BY WEIGHT	CAS NUMBER	INGREDIENT	UNITS	VAPOR PRESSURE
14	74-98-6	PROPANE	ACGIH TLV 2500 ppm OSHA PEL 1000 ppm	760 mm
13	106-97-8	BUTANE	ACGIH TLV 800 ppm OSHA PEL 800 ppm	760 mm
22	108-88-3	TOLUENE	ACGIH TLV 20 ppm OSHA PEL 100 ppm (Skin) OSHA PEL 150 ppm (Skin) STEL	22 mm
0.1	100-41-4	ETHYLBENZENE	ACGIH TLV 100 ppm ACGIH TLV 125 ppm STEL OSHA PEL 100 ppm OSHA PEL 125 ppm STEL	7.1 mm
31	67-64-1	ACETONE	ACGIH TLV 500 ppm ACGIH TLV 750 ppm STEL OSHA PEL 1000 ppm	180 mm
2	763-69-9	ETHYL 3-ETHOXYPROPIONATE	ACGIH TLV Not Available OSHA PEL Not Available	1.11 mm
4	13463-67-7	TITANIUM DIOXIDE	ACGIH TLV 10mg/m <sup>3</sup> as Dust OSHA PEL 10 mg/m <sup>3</sup> Total Dust OSHA PEL 5 mg/m <sup>3</sup> Resp. Fraction	
0.2	1333-86-4	CARBON BLACK	ACGIH TLV 3.5 mg/m <sup>3</sup> OSHA PEL 3.5 mg/m <sup>3</sup>	

## SECTION 3 – HAZARDS IDENTIFICATION

**HMIS CODES:** HEALTH: 2\* FLAMMABILITY: 3 REACTIVITY: 0

### ROUTES OF EXPOSURE

**INHALATION** of vapor or spray mist.

**EYE OR SKIN CONTACT** with the product, vapor or spray mist.

### EFFECTS OF OVER-EXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

**SIGNS AND SYMPTOMS OF OVER-EXPOSURE:** Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None generally recognized.

**CANCER INFORMATION:** For complete discussion of toxicology data refer to Section 11.

N/A — NOT APPLICABLE  
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 4 – FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** *DO NOT INDUCE VOMITING.* Get medical attention immediately.

**SECTION 5 – FIRE - FIGHTING MEASURES**

**FLASH POINT:** Propellant < 0°F

**FLAMMABLE LIMITS:** LEL: 1.0 UEL: 12.8

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE-FIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

- \* Remove all sources of ignition. Ventilate the area.
- \* Remove with inert absorbent.

**SECTION 7 – HANDLING AND STORAGE**

**STORAGE CATEGORY:** Not Available

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.  
*During use and until all vapors are gone:* Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN IN USE:** Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed “as Dust” in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are  
*ACGIH TLV:* 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction)  
*OSHA PEL:* 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION:** Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION:** If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES:** None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**EYE PROTECTION:** Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS:** Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES**

**PRODUCT WEIGHT:** 6.33 lb/gal; 758 g/l

**BOILING POINT:** <0 - 342°F/ <-18 - 172°C

**VOLATILE VOLUME:** 90%

**VAPOR DENSITY:** Heavier than air

**pH:** 7.0

**SPECIFIC GRAVITY:** 0.76

**MELTING POINT:** N/A

**EVAPORATION RATE:** Faster than ether

**SOLUBILITY IN WATER:** N/A

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged):** Volatile Weight 52.00% Less Water and Federally Exempt Solvents

**SECTION 10 – STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** None known.

**INCOMPATIBILITY:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** *BY FIRE:* Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**CHRONIC HEALTH HAZARDS:** Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

ETHYLBENZENE is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

**IARC's Monograph:** No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**CARBON BLACK** is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

**TOXICOLOGY DATA**

CAS NO.	INGREDIENT NAME			
74-98-6	PROPANE	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		N/A
106-97-8	BUTANE	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		N/A
108-88-3	TOLUENE	LC <sub>50</sub> RAT	4HR	4000 ppm
		LD <sub>50</sub> RAT		5000 mg/kg
100-41-4	ETHYLBENZENE	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		3500 mg/kg
67-64-1	ACETONE	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		5800 mg/kg
763-69-9	ETHYL 3-ETHOXYPROPIONATE	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		5000 mg/kg
13463-67-7	TITANIUM DIOXIDE	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		N/A
1333-86-4	CARBON BLACK	LC <sub>50</sub> RAT	4HR	N/A
		LD <sub>50</sub> RAT		N/A

**SECTION 12 – ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** N/A

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 – TRANSPORT INFORMATION**

**US Ground (DOT):** May be classed as Consumer Commodity, ORM-D  
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

**Canada (TDG):** May be classed as Consumer Commodity, ORM-D  
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

**SECTION 15 – REGULATORY INFORMATION**

**IMO:** May be shipped as Limited Quantity  
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% ELEMENT
108-88-3	TOLUENE	22	
100-41-4	ETHYLBENZENE	0.1	

**CALIFORNIA PROPOSITION 65****SECTION 16 – OTHER INFORMATION**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.