



# MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®  
5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL  
EMERGENCY**

Call ChemTrec day/night:  
**1-800-424-9300**

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RED LION RED IRON OXIDE PRIMER  
**PART NUMBER:** 74002  
**PRODUCT TYPE:** Oxide Primer  
**CHEM. FAMILY:** Acetone/Propane/Toluene/Butane mixture

**DATE PREPARED:** OCTOBER 15, 2008  
**CHROMATE INDUSTRIAL CORPORATION**  
5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

### DANGEROUS COMPONENTS:

67-64-1	Acetone	23.67%
74-98-6	Propane	12.6%
108-88-3	Toluene	7.43%
106-97-8	n-Butane	7.4%
64742-89-8	VM&P Naptha	6.05%
64-17-5	Ethyl Alcohol	3.88%
1330-20-7	Xylene (mix)	3.41%
1309-37-1	Red Iron Oxide Pigment	3.22%
14807-96-6	Talc (Mg3H2(SiO3)4)	3.19%
123-86-4	n-Butyl Acetate	3.17%
108-65-6	PM Acetate	2.71%
64742-47-8	Mineral Spirits	1.99%
110-19-0	Isobutyl Acetate	1.54%

**Additional information:** For the wording of the listed risk phrases refer to section 3.

## SECTION 3 – HAZARDS IDENTIFICATION

**Hazard Description:** Harmful. **EXTREMELY FLAMMABLE**

**Physical Dangers:** Extremely flammable.

Irritating to eyes and respiratory system.

Possible risk of harm to the unborn child

Keep out of the reach of children.

**Effects of Short-Term Over-exposure:** Vapors cause irritation to the eyes, nose, throat, skin, and central nervous system. Symptoms may include dizziness, throat irritation, headache, fatigue, swelling of eyes, and nausea.

**Effects of Chronic Overexposure:** May cause permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart, and blood. Intentional misuse by deliberately inhaling the contents may be harmful or fatal.

<b>NFPA RATINGS (SCALE 0 - 4):</b>	<b>HEALTH = 1</b>	<b>FIRE = 4</b>	<b>REACTIVITY = 3</b>
<b>HMIS-RATINGS (SCALE 0 - 4):</b>	<b>HEALTH= 1</b>	<b>FIRE= 4</b>	<b>PHYSICAL HAZARD= 3</b>

## SECTION 4 – FIRST AID MEASURES

**After Inhalation:** Supply fresh air; consult doctor in case of complaints.

**After Skin Contact:** Remove contaminated clothing. Wash exposed area with soap and water.

**After Eye Contact:** Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After Swallowing:** Contact physician or poison control center.

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

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 5 – FIRE FIGHTING MEASURES**

**After Inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After Skin Contact:** Remove contaminated clothing. Wash exposed area with soap and water.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**After Eye Contact:** Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**After Swallowing:** Contact physician or poison control center.

**SECTION 7 – HANDLING AND STORAGE**

**Extinguishing Agents:** CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.  
**Protective Equipment:** No special measures required.

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

**COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:**

67-64-1	Acetone	PEL	2400 mg/m <sup>3</sup> , 1000 ppm
		REL	590 mg/m <sup>3</sup> , 250 ppm
		TLV	Short-term value: 1782 mg/m <sup>3</sup> , 750 ppm Long-term value: 1188 mg/m <sup>3</sup> , 500 ppm BEI
108-88-3	Toluene	PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
		REL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
		TLV	(188) NIC-75 mg/m <sup>3</sup> , 20 ppm (Skin); (BEI)
106-97-8	n-Butane	REL	1900 mg/m <sup>3</sup> , 800 ppm
64-17-5	Ethyl Alcohol	PEL	1900 mg/m <sup>3</sup> , 1000 ppm
		REL	1900 mg/m <sup>3</sup> , 1000 ppm
		TLV	1880 mg/m <sup>3</sup> , 1000 ppm
1330-20-7	Xylene (mix)	PEL	435 mg/m <sup>3</sup> , 100 ppm
		REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
		TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI
123-86-4	n-Butyl Acetate	PEL	710 mg/m <sup>3</sup> , 150 ppm
		REL	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
		TLV	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 713 mg/m <sup>3</sup> , 150 ppm
108-65-6	PM Acetate	WEEL	50 ppm
110-19-0	Isobutyl Acetate	PEL	700 mg/m <sup>3</sup> , 150 ppm
		REL	700 mg/m <sup>3</sup> , 150 ppm
		TLV	713 mg/m <sup>3</sup> , 150 ppm

**Protective Hygienic Measures:** Keep away from foodstuffs and animal feed. Wash hands after use.  
**Breathing Equipment:** Use suitable respiratory protective device in case of insufficient ventilation. A respirator is generally not necessary when using this product outdoors or in large open areas. In cases of inadequate ventilation, a respiratory protective device should be worn to prevent overexposure.

**SECTION 8 (CONT'D) – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Protection of Hands:** Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.

**Eye Protection:** Tightly sealed goggles

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES****GENERAL INFORMATION:**

**Form:** Aerosol

**Color:** According to trade name description in section 1.

**Odor:** Solvent

**Boiling Point/Boiling Range:** -44°C (-47°F)

**Flash Point:** -19°C (-2°F)

**Ignition Temperature:** 365°C (689°F)

**Auto Igniting:** Product is not self-igniting.

**Danger of Explosion:** Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 degrees fahrenheit. In use, may form flammable/explosive vapor-air mixture.

**Lower Explosion Limit:** 1.7 Vol %

**Upper Explosion Limit:** 10.9 Vol %

**Vapor Pressure:** ~40 PSI, 2750 hPa

**Density at 20°C (68°F):** 0.829 g/cm<sup>3</sup>

**Specific Gravity:** Between 0.77 and 0.85 (Water equals 1.00)

**VOC content:** 577.4 g/l / 4.82 lb/gl

**VOC content (less exempt solvents):** 52.3 %

**MIR Value:** 1.15

**Solids Content:** 23.6 %

**SECTION 10 – STABILITY AND REACTIVITY**

**CONDITIONS TO BE AVOIDED:** Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reactions known.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Primary Effect on the Skin:** No irritant effect.

**Primary Effect on the Eye:** Irritating effect.

**Sensitization:** No sensitizing effects known..

**Additional Toxicological Information:** Harmful.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Other Information:** This product does not contain any chloroflourocarbons (CFC's),chlorinated solvents, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), or polybrominated diphenyl ether (PDBE). No specific ecological data is available for this product.

**Acquatic Toxicity:** Hazardous for water, do not empty into drains.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact.

Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

**Recommendation:** Empty cans should be recycled.

**SECTION 14 – TRANSPORT INFORMATION**

**Hazard Class:** 2.1  
**Identification Number:** N/A  
**Label:** 2.1  
**ADR/RID Class:** 2 5F Gases  
**UN-Number:** 1950  
**IMDG Class:** 2.1

**Packaging Group:** II  
**EMS Number:** F-D,S-U  
**Marine Pollutant:** No  
**ICAO/IATA Class:** 2.1  
**Proper Shipping Name:** Aerosols, Flammable  
**Consumer Commodity:** ORM-D

**SECTION 15 – REGULATORY INFORMATION**

**SARA SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):** None of the ingredients in this product are listed.

**SARA SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):**

1330-20-7 Xylene (mix)

**TSCA (TOXIC SUBSTANCES CONTROL ACT):** All ingredients are listed.

**PROPOSITION 65 CHEMICALS KNOWN TO CAUSE CANCER:**

100-41-4 Ethyl Benzene  
 1333-86-4 Carbon Black

**PROPOSITION 65 CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:**

108-88-3 Toluene

**CANADIAN WHMIS:** Class A, B5---Flammable Aerosols

**EPA:** **A=** Known human carcinogen **B=** Probable human carcinogen  
**C=** Possible human carcinogen **D=** Not classifiable as to human carcinogenicity: Inadequate human and animal evidence of carcinogenicity (or no data is available).

1330-20-7 Xylene (mix) D  
 110-19-0 Isobutyl Acetate D

**IARC:** **Group 2B:** The ingredient is possibly carcinogenic to humans. There is limited evidence of carcinogenicity.  
**Group 3:** The ingredient is unclassifiable as to its carcinogenicity to humans.

1330-20-7 Xylene (mix) 3  
 1309-37-1 Red Iron Oxide pigment 3  
 14807-96-6 Talc (Mg3H2(SiO3)4) 3

**ACGIH TLVs:** **A1-**designates a confirmed human carcinogen.  
**A2-**designates a suspected human carcinogen.  
**A3-**designates an animal carcinogen.  
**A4-**designates "not classifiable as a human carcinogen".

64-17-5 Ethyl Alcohol A4  
 1330-20-7 Xylene (mix) A4  
 1309-37-1 Red Iron Oxide pigment A4  
 110-19-0 Isobutyl Acetate A4

**NIOSH:**  
 1333-86-4 Carbon Black  
 13463-67-7 Titanium Dioxide

**USDA (UNITED STATES DEPARTMENT OF AGRICULTURE):** This product was manufactured to conform to the USDA Food Safety and Inspection Service performance standards. These standards include, but are not limited to, the ability of this product to be safe for use in official meat and poultry establishments, and to perform well under a daily regimen of thorough cleaning, cyclical temperature change, and wet conditions. This coating is acceptable for structural surfaces where there is a possibility of incidental food contact.

**SECTION 16 – OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Contact:** Regulatory Affairs, USA