



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: LIGHT GREY PRIMER

PART NUMBER: X86002

PRODUCT TYPE: PAINT

DATE PREPARED: March 3, 2009

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SECTION 2 – COMPOSITION / DATA ON COMPONENTS

CHEMICAL DESCRIPTION: This product is a mixture of the substances listed below with nonhazardous additions.

| | | | |
|------------------------------|------------|---|--------|
| DANGEROUS COMPONENTS: | 67-64-1 | ACETONE | 23.24% |
| | 74-98-6 | PROPANE | 12.6% |
| | 106-97-8 | N-BUTANE | 7.4% |
| | 13463-67-7 | TITANIUM DIOXIDE | 7.28% |
| | 108-88-3 | TOLUENE | 6.08% |
| | 64742-89-8 | VM&P NAPHTHA | 5.7% |
| | 14807-96-6 | TALC (Mg ₃ H ₂ (SiO ₃) ₄) | 4.3% |
| | 1330-20-7 | XYLENE (MIX) | 4.03% |
| | 64-17-5 | ETHYL ALCOHOL | 3.81% |
| | 123-86-4 | N-BUTYL ACETATE | 3.11% |
| | 64742-47-8 | MINERAL SPIRITS | 3.08% |
| | 110-19-0 | ISOBUTYL ACETATE | 1.52% |
| | 108-65-6 | PM ACETATE | 1.34% |

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 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.

| | | | |
|------------------------------------|------------------|------------------------|---------------------------|
| NFPA RATINGS (SCALE 0 - 4): | HEALTH: 1 | FLAMMABILITY: 4 | REACTIVITY: 3 |
| HMIS-RATINGS (SCALE 0 - 4): | HEALTH: 1 | FLAMMABILITY: 4 | PHYSICAL HAZARD: 3 |

SECTION 4 – FIRST AID MEASURES

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

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

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

Swallowing: Contact physician or poison control center.

SECTION 5 – FIRE-FIGHTING MEASURE

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 6 – HEALTH HAZARD DATA

PERSONAL SAFETY PRECAUTIONS: Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL SAFETY PRECAUTIONS: Do not allow product to reach sewage systems or ground water.

MEASURES FOR CLEANING/ COLLECTING: Ensure adequate ventilation.

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 7 – HANDLING AND STORAGE

FIRE/EXPLOSION PROTECTION: Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.

STORAGE REQUIREMENTS: Observe pressurized container storage regulations. Consult with your local authorities.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:****67-64-1 ACETONE**

PEL 2400 mg/m³, 1000 ppm
REL 590 mg/m³, 250 ppm
TLV *Short-term value:* 1782 mg/m³, 750 ppm
Long-term value: 1188 mg/m³, 500 ppm
 BEI

74-98-6 PROPANE

PEL 1800 mg/m³, 1000 ppm
REL 1800 mg/m³, 1000 ppm
TLV Varies mg/m³, 1000 ppm

106-97-8 N-BUTANE

REL 1900 mg/m³, 800 ppm
TLV Varies mg/m³, 1000 ppm

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/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
TLV 75 mg/m³, 20 ppm

1330-20-7 XYLENE (MIX)

PEL 435 mg/m³, 100 ppm
REL *Short-term value:* 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV *Short-term value:* 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
 BEI

64-17-5 ETHYL ALCOHOL

PEL 1900 mg/m³, 1000 ppm
REL 1900 mg/m³, 1000 ppm
TLV *Short-term value:* 1880 mg/m³, NIC-1000 ppm
Long-term value: 1880 mg/m³, 1000 ppm
 NIC-A3

123-86-4 N-BUTYL ACETATE

PEL 710 mg/m³, 150 ppm
REL *Short-term value:* 950 mg/m³, 200 ppm
Long-term value: 710 mg/m³, 150 ppm
TLV *Short-term value:* 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppm

110-19-0 ISOBUTYL ACETATE

PEL 700 mg/m³, 150 ppm
REL 700 mg/m³, 150 ppm
TLV 713 mg/m³, 150 ppm

108-65-6 PM ACETATE

WEEL 50 ppm

PROTECTIVE HYGIENIC MEASURES: Keep away from foodstuffs and animal feed. Wash hands after use.

BREATHING EQUIPMENT: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. Please consult an authority on chemical hygiene monitoring if you suspect overexposure conditions exist and need a specific recommendation on proper ventilation techniques 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:****Odor:** Aromatic**Boiling point/Boiling range:** -44°C**Flash Point:** -19°C**Ignition Temperature:** 365°C**Auto-igniting:** Product is not self-igniting.**DANGER OF EXPLOSION:** Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120°F.

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:** 0.84526 g/cm³**SPECIFIC GRAVITY:** Between 0.77 and 0.85 (Water equals 1.00)**VOC CONTENT:** 572.5 g/l / 4.78 lb/gl**VOC CONTENT (LESS EXEMPT SOLVENTS):** 50.9 %**MIR VALUE:** 50.9 %**MIR VALUE:** 1.13**SOLIDS CONTENT:** 25.6 %**SECTION 10 – STABILITY AND REACTIVITY DATA****CONDITIONS TO BE AVOIDED:** Do not allow the can to exceed 120°F. Stable at normal temperatures.**POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reactions known.**SECTION 11 – TOXICOLOGICAL INFORMATION****PRIMARY EFFECT ON THE SKIN:** No irritating effect.**PRIMARY EFFECT ON THE EYE:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional Toxicological Information:** The product shows the following dangers according to internally approved calculation methods for preparations:**SECTION 12 – ECOLOGICAL INFORMATION****OTHER INFORMATION:** This product does not contain any chlorofluorocarbons (CFCs), chlorinated solvents, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), or polybrominated diphenyl ether (PDBE). No specific ecological data is available for this product.**Aquatic 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:** Completely empty cans should be recycled.**SECTION 14 – TRANSPORT INFORMATION****Hazard Class:** 2.1**Label:** 2.1**UN-Number:** 1950**Packaging group:** II**Marine pollutant:** No**Proper shipping name:** Aerosols, Flammable**Identification Number:** N/A**ADR/RID class:** 2 5F Gases**IMDG Class:** 2.1**EMS Number:** F-D,S-U**ICAO/IATA Class:** 2.1**Consumer Commodity:** ORM-D

SECTION 15 – REGULATIONS

SARA Section 355 (extremely hazardous substances): None of the ingredients in this product are listed.

SARA Section 313 (Specific toxic chemical listings): 108-88-3 TOLUENE
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

Chemicals Known to Cause Developmental Toxicity: 108-88-3 TOLUENE

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).

| | | |
|-----------|------------------|----|
| 67-64-1 | ACETONE | I |
| 108-88-3 | TOLUENE | II |
| 1330-20-7 | XYLENE (MIX) | I |
| 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.

| | | |
|------------|---|----|
| 13463-67-7 | TITANIUM DIOXIDE | 2B |
| 108-88-3 | TOLUENE | 3 |
| 14807-96-6 | TALC (Mg ³ H ₂ (SiO ₃) ₄) | 3 |
| 1330-20-7 | XYLENE (MIX) | 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"

| | | |
|------------|---|----|
| 67-64-1 | ACETONE | A4 |
| 13463-67-7 | TITANIUM DIOXIDE | A4 |
| 108-88-3 | TOLUENE | A4 |
| 14807-96-6 | TALC (Mg ³ H ₂ (SiO ₃) ₄) | A4 |
| 1330-20-7 | XYLENE (MIX) | A4 |
| 64-17-5 | ETHYL ALCOHOL | A4 |
| 110-19-0 | ISOBUTYL ACETATE | A4 |

NIOSH: 13463-67-7 TITANIUM DIOXIDE
1333-86-4 CARBON BLACK

RISK PHRASES: *EXTREMELY FLAMMABLE. Irritating to eyes and respiratory system. Possible risk of harm to the unborn child.*

SAFETY PHRASES: *KEEP OUT OF THE REACH OF CHILDREN.* Keep in a cool place. Keep container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Wear suitable protective clothing and gloves. If swallowed, seek medical advice immediately and show this container or label. Use only in well-ventilated areas.

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.

ABBREVIATIONS AND ACRONYMS:

ADR: (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)