



Material Safety Data Sheet

Bulldog CLS

Date Prepared: 5/1/2006

Section I - Product and Company Identification

- Product Name: Bulldog CLS
- Generic Description: Chrome Lignosulfonate Thinner
- Supplier: Bulldog Chemicals
29030 Lake Houston Lane
Huffman, TX 77336
Emergency Telephone: 281-360-7315

Section II – Composition

- Material or Component: Chromium (III) Compounds
- Percentage: 3-4 (Cr)
- OSHA PEL: 0.5 mg/m³

Section III – Physical and Chemical Properties

- | | | | |
|------------------------|-------------------|-------------------|------------|
| • Appearance: | dark brown powder | Flash Point: | n/a |
| • Solubility in Water: | Soluble | Specific Gravity: | Approx 0.5 |
| • Boiling Point: | n/a | Explosion Limits: | n/a |
| • Odor: | none | Evaporation Rate: | n/a |
| • Vapor Density: | n/a | pH: | 3-3.5 |

Section IV – Hazard Identification

- Hazard Data: May be irritating to skin, eyes and respiratory tract.
- Health 1, Flammability 1, Reactivity 0 (Ratings based on NPFA)
- Inhalation: Irritating to the respiratory tract if inhaled. Prolonged exposure to high levels of dust may cause sneezing, coughing or other nuisance symptoms.
- Skin Contact: May be irritating to the skin with prolonged contact.
- Eye Contact: May cause irritation to the eyes.
- Ingestion: Not anticipated route of exposure.
- Chronic Health Effects: Not listed as a carcinogen on IARC, NTP or OSHA lists.
- Medical Conditions Aggravated by Exposure: None known.



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Section V – First Aid Measures

- Inhalation: Remove person to fresh air. Get medical attention for any breathing difficulty.
- Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.
- Eye Contact: Remove contact lenses; wash thoroughly with large amounts of running water for at least 15 minutes. Get medical advice if irritation develops.
- Ingestion: If large amounts were ingested, immediately give large quantities of water to drink to dilute. After dilution induce vomiting. Get immediate medical attention.
- Advice to Physicians: Treat symptomatically.

Section VI – Fire Fighting Measures

- Flash Point: N/A
- Flammable Limits: N/A
- Fire Extinguishing Media: Water, carbon dioxide, dry powder or foam
- Unusual Fire and Explosion Hazard: Dust explosions may occur when finely divided particles are mixed with air in the presence of an ignition source.

Section VII – Accidental Release Measures

- Release or Spill: Collect and place in suitable container for reuse or disposal.
- Personal Precautions: Avoid breathing dust.
- Environmental Precautions: Keep out of waterways.

Section VIII – Handling and Storage

- Store in a cool, dry, ventilated area. Use good housekeeping in storage and work areas to prevent accumulation of dust. Keep away from oxidizing agents.



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Section IX - Exposure Control/Personal Protection

- Airborne Exposure Limits: OSHA Permissible Exposure Limit (PEL) 0.5/mg/m³
- Ventilation Requirements: A system of local and/or general exhaust is recommended if handled in a confined area. Because of the explosive potential of organic dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motor is recommended.
- Respiratory Protection: Air purifying respirator recommended for prolonged exposure to high concentrations.
- Skin Protection: Rubber gloves.
- Eye Protection: Wear safety goggles. Maintain eye wash station in work area.
- Other Protection Equipment/Clothing: As appropriate for work area. Use explosion proof equipment for dusty conditions.

Section X – Stability and Reactivity

- Stability: Stable under normal conditions of use and storage.
- Materials to Avoid: Strong oxidizers.
- Hazardous Polymerization: Will not occur.
- Hazardous Decomposition: Sulfur dioxide (SO₂) possible.

Section XI – Toxicological Information

- No acute toxicity data is available for product or components.
- Not listed as carcinogen by IARC, NTP, or OSHA.

Section XII - Ecological Information

- No ecotoxicity data is available.

Section XIII – Disposal

- Dispose of material in accordance with all local, state, and federal regulations. Spills or releases of this material do not currently trigger the emergency release reporting requirements under the federal Superfund Amendments and Reauthorization Act (SARA).



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Section IX – Transportation Information

- UN Proper Shipping Name: Not regulated
- UN Label: None
- UN Identification Number: None
- Hazardous Ingredients: None
- Placards: None
- Reportable Quantity: None

Section X – Regulatory Information

- TSCA Listed: Yes
- SARA Title III Section 302: No
- SARA Title III Section 311/312: No
- SARA Title III Section 313: No