



# Safety Data Sheet

## Chromium 90% Briquettes



SECTION 1: IDENTIFICATION	
<p><b>Product Name:</b> Chromium 90% Briquettes</p> <p><b>Chemical Formula:</b> Cr, Al</p> <p><b>Other Names:</b> 90Cr, Chrome, Chromium Pellets without Flux, Chromium Tablets</p> <p><b>Intended Use / Restrictions on Use:</b> For professional/industrial use only.</p>	<p><b>Contact Information:</b> Greenwich Metals, Inc. 165 West Putnam Ave. Greenwich, CT 06830 Phone: 203-622-4848</p> <p><b>Emergency Contact:</b> Chemtrec – call 1-800-424-9300</p>

SECTION 2: HAZARDS IDENTIFICATION	
<p><b>Classification:</b> Acute aquatic toxicity (Category 1) – H400 Chronic aquatic toxicity (Category 1) – H410</p> <p><b>Label Elements:</b> Hazard Pictograms:</p>	
 	
GHS09	GHS02
Signal Word:	Danger
Hazard Statements:	H410 – Very toxic to aquatic life with long lasting effects H260 – In contact with water release flammable gases which may ignite spontaneously
Precautionary Statements:	P273 – Avoid release to the environment. P391 – Collect spillage. P501 – Dispose of contents/container in accordance with local, regional, national and international regulations.
<b>Other Hazards:</b>	Avoid formation and consolidation of dust.
<b>Unknown Acute Toxicity Statement:</b>	Not Applicable

SECTION 3: COMPOSITION		
<p><b>Name:</b> Chromium 90% Briquettes</p> <p><b>Synonyms:</b> 90Cr, Chrome, Chromium Pellets without Flux, Chromium Tablets</p> <p><b>Mixture:</b> For exact composition, refer to analysis or specifications.</p>		
<i>Chemical Name</i>	<i>CAS Number</i>	<i>% by Weight</i>
Chromium (Cr)	7440-47-3	90%
Aluminum (Al)	7429-90-5	10%

SECTION 4: FIRST AID MEASURES
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**Required Treatment:**

After inhalation, move to fresh air and rest in a position comfortable for breathing.

After skin contact, wash skin thoroughly.

After eye contact, remove contact lenses if applicable and flush eyes with water for at least 15 minutes.

After ingestion, do not induce vomiting. Rinse mouth with water. Call poison control center or doctor.

**Important Symptoms & Effects, Acute & Delayed:**

Notable symptoms listed in Section 11. If feeling un-well after exposure, consult with a doctor.

**Indication of Medical Attention:**

If any acute or chronic symptoms arise or if feeling unwell after exposure, seek medical advice.

**SECTION 5: FIRE-FIGHTING MEASURES****Extinguishing Techniques/Equipment:**

Use dry agent such as dry powder, sand, or talc. Use extinguishing media appropriate for surrounding environment. Do not use water on molten metal.

**Chemical Hazards from Fire:**

Chromium Oxides.

**Special Equipment and Precautions for Firefighters:**

Exercise caution. If entering fire area, wear proper protective equipment including respiratory protection if necessary.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Emergency Procedures/Personal Protection:**

Avoid dust formation. Avoid breathing fumes and dust.

Evacuate all unnecessary personnel.

**Protective Equipment:**

Use appropriate personal protection equipment (PPE), as listed in section 8.

**Methods of Containment & Cleanup:**

Sweep up and store in closed containers.

**SECTION 7: HANDLING AND STORAGE****Precautions for Safe Handling:**

When solid, practice good industrial hygiene and safety procedures. Do not allow dust or powder to accumulate on equipment or building surfaces. Clean exposed areas.

**Precautions for Safe Storage:**

Store in cool, dry and well ventilated location. Seal containers. Keep away from incompatible materials such as strong acids and oxidizing agents.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****Control Parameters:**

Chromium	USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.50 mg/m <sup>3</sup>
Chromium	USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1.0 mg/m <sup>3</sup>
Chromium	USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.50 mg/m <sup>3</sup>
Aluminum	USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15mg/m <sup>3</sup> (Total Dust)
Aluminum	USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15mg/m <sup>3</sup> (Total Dust)

**Engineering Controls:**

Ensure adequate ventilation. Emergency eye wash stations and safety showers should be nearby any potential exposure. Ensure national/local regulations are observed.

**Personal Protective Equipment:**

Protective goggles, gloves and clothing. If insufficient ventilation, wear respiratory protection.

**Materials for Protective Clothing:** Wear chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant gloves. If working with molten or hot material, wear thermally resistant gloves.

**Eye Protection:** Chemical goggles or safety glasses should be worn at all times. For furnace work, wear a face shield or safety glasses.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

**Thermal Hazard Protection:** For furnace work, fire retardant clothing, gloves, and safety shoes should be worn.

**Consumer Exposure Controls:** Do not eat, drink, or smoke during use.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid (Metal)

**Color:** Grey/Silver

**Taste:** N/A

**Molecular Weight:** N/A

**Odor:** N/A

**Odor Threshold:** N/A

**pH:** N/A

**Melting Point:** 710 °C (1,310 °F) for Cr/Al

**Boiling Point:** N/A

**Boiling Range:** N/A

**Flash Point:** N/A

**Evaporation Rate:** N/A

**Flammability:** May form combustible dust concentrations in air

**Upper/Lower Flammability Limits:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Relative Density:** 4.5 g/mL at 25 °C for Cr/Al

**Solubility:** Insoluble in water

**Partition Coefficient:** N/A

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

**Viscosity:** N/A

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Stability:** Stable under proper handling and storage conditions.

**Hazardous Reactions:** No data available.

**Conditions to Avoid:** Avoid incompatible materials, dust generation.

**Incompatible Materials:** Strong acids, strong oxidizing agents

**Hazardous Decomposition Products:** No data available

**SECTION 11: TOXICOLOGICAL INFORMATION****Routes of Exposure**

Inhalation of dust, fumes. Skin contact through physical contact. Eye contact through physical contact or dust and fumes. Ingestion through contamination of skin/surfaces.

**Chronic and Acute Related Symptoms/Effects:**

Inhalation of fumes or dust can cause respiratory irritation. Skin contact with molten metal can cause burns. Dust or fumes can cause eye irritation.

**Measures of Toxicology:**

Acute Toxicity: Not Classified  
Skin Corrosion/Irritation: Not Classified  
Serious Eye Damage/ Irritation: Not Classified  
Respiratory or Skin Sensitization: Not Classified

**Germ Cell Mutagenicity:** Not Classified

**Reproductive Toxicity:** Not Classified

**Carcinogenic Information:** The carcinogenicity of this product is not classifiable based on its IARC, ACGIH, NTP, or EPA classification.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

Toxicity to fish – LC50 – Oncorhynchus Mykiss (rainbow trout) – 0.12mg/l – 96h (Al)  
Mortality LOEC – Ctenopharyngodon Idella (Grass Carp) 0.1mg/l – 96h (Al)  
LC50 – Cyprinus Carpio (Carp) – 14.3mg/l – 96h (Cr)  
Mortality LOEC – Pimephaelis Promelas (Fathead Minnow) – 2.4mg/l – 7d (Cr)

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** Salvelinus Fontinalis – 56d – 268 µg/l – Bio-concentration Factor: 36 (Al)  
Oncorhynchus Mykiss – 30d – 1.33 µg/l – Bio-concentration Factor: 1.13 (Cr)

**Mobility in Soil:** No data available

### Other Adverse Effects:

Prevent entry to sewers and public waterways. Avoid release to the environment. Ensure accordance with national and local regulations.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with all local, regional, national, and international regulations.

## SECTION 14: TRANSPORTATION INFORMATION

UN Number: 3077

UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Chromium/Aluminum)

Transport Hazard Classes: 9

Packing Group: III

Environmental Hazards: N/A

Transport in Bulk: N/A

Special Precautions: Keep dry.

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations:

SARA Section 302 – None

SARA Section 311/312 Hazard Classes – Fire Hazard, Delayed (chronic) Health Hazard, Reactivity Hazard

SARA Section 313 Emissions Reporting – Aluminum and Chromium are subject to reporting levels established by SARA.

### US State Regulations:

California – Prop. 65 – Non-carcinogenic

Massachusetts – Right To Know List

Pennsylvania – Right To Know List

New Jersey – Right To Know List

**SECTION 16: OTHER INFORMATION**

Date of Preparation: 05/31/15

Prepared in accordance with OSHA HCS 29 CFR 1910.1200.

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