

# SAFETY DATA SHEET

## Section 1. Identification

<b>Product Name:</b>	Bis(ethylbenzene)chromium (mixture of (C <sub>2</sub> H <sub>5</sub> )XC <sub>6</sub> H <sub>6</sub> -x where x=0-4)
<b>Product Type:</b>	Liquid
<b>CAS Number:</b>	12212-68-9.
<b>Product Number:</b>	CR2689
<b>Product Manufacturer:</b>	Ereztech LLC 11555 Medlock Bridge Road, Suite 100 Johns Creek, GA 30097
<b>Product Information:</b>	(888) 658-1221
<b><u>In case of an emergency:</u></b>	(888) 658-1221 (for spill, leak, fire or exposure) *** Contact manufacturer for all non-emergency calls.

## Section 2. Hazards Identification

### Emergency Overview

<b>Appearance/Odor:</b>	Dark brown liquid, odorless.
<b>Classification:</b>	FLAMMABLE LIQUIDS; - Category 2, H225
<b>Signal word :</b>	DANGER
<b>Hazard statements:</b>	H225: Highly flammable liquid and vapor.
<b>Hazard pictograms:</b>	



### Precautionary statements

<b>Prevention:</b>	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233: Keep container tightly closed. P240: Ground/Bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking equipment. P243: Take precautionary measures against static discharge. P280: Wear protective gloves/eye protection/face protection.
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### Section 2. Hazards Identification

<b>Response:</b>	P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370 + P378: In case of fire: Use dry chemical powder, foam or CO <sub>2</sub> for extinction.
<b>Storage:</b>	P403 + P235: Store in a well-ventilated place. Keep cool.
<b>Disposal:</b>	P501: Dispose of contents/ container to an approved wasted disposal plant.
<b><u>GHS label elements</u></b>	
<b>General:</b>	None.
<b>OSHA/HCS status:</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Hazards not otherwise classified:</b>	None known.

### Section 3. Composition/Information on Ingredients

#### Substances

<b>Formula</b>	: [(C <sub>2</sub> H <sub>5</sub> ) <sub>x</sub> C <sub>6</sub> H <sub>6</sub> -x] <sub>2</sub> Cr
<b>Molecular weight</b>	: 264.33 g/mol
<b>CAS-No.</b>	: 12212-68-9

<b>Ingredient Name</b>	<b>%</b>	<b>CAS Number</b>
Bis(ethylbenzene)chromium (mixture of (C <sub>2</sub> H <sub>5</sub> )XC <sub>6</sub> H <sub>6</sub> -x where x=0-4)	100	12212-68-9

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

### Section 4. First Aid Measures

#### Description of Necessary First Aid Measures

<b>General Advice:</b>	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue rinsing.
<b>Skin Contact:</b>	Wash off contaminated skin with soap and plenty of water. Get medical attention if irritation develops and persists.
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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### Section 4. First Aid Measures

- Inhalation (cont.):** Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing or pain. In such cases, seek immediate medical attention. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Remove dentures if any. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a physician or POISON CONTROL CENTER if symptoms persist.

#### Most Important Symptoms/Effects, Acute And Delayed Potential Acute Health Effects

- Eye Contact:** May cause slight to mild irritation of the eyes.
- Inhalation:** Vapors may be irritating to nose, mucous membranes and respiratory tract.
- Skin Contact:** May cause slight to mild irritation of skin.
- Ingestion:** No information is available on the acute physiological effects of the ingestion of this compound.

#### Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

- Notes to Physician:** Treat symptomatically.
- Specific Treatments:** No specific treatment.
- Protection of First Responders:** No action taken shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### Section 5. Fire Fighting Measures

- General Hazards:** Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Suitable Extinguishing Media:** Use sand, dry chemical powder, foam or carbon dioxide (CO<sub>2</sub>). Suitable extinguishing media for the surrounding fire should be used. Fight larger fires with water spray or alcohol resistant foam. Use water spray to cool containers.

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### Section 5. Fire Fighting Measures

<b>Unsuitable Extinguishing Media:</b>	Water with full jet.
<b>Unusual Fire and Explosion Hazards:</b>	None identified.
<b>Product of Combustion:</b>	If involved in a fire, this material may emit irritating and toxic fumes. Decomposition products may include carbon oxides, organic fumes and chromium oxides.
<b>Protection of Firefighters:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

### Section 6. Accidental Release Measures

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

<b>For Non-emergency Personnel:</b>	No action shall be taken involving any personal risk or without suitable training. Remove all potential ignition sources. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Wear respiratory protection. Put on appropriate personal protective equipment.
<b>For Emergency Responders:</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
<b>Environmental Precautions:</b>	Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### **Methods for Containment**

<b>Small Spill:</b>	Absorb spill with inert liquid-binding material (sand, diatomite, acid/universal binders, sawdust). Sweep up absorbent material and place in an appropriate waste disposal container. Do not flush spill area with water or aqueous cleaning solution. Dispose of via a licensed waste disposal contractor.
<b>Large Spill:</b>	Absorb spill with inert liquid-binding material (sand, diatomite, acid/universal binders, sawdust).

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### Section 6. Accidental Release Measures

**Large Spill (cont.):**

Sweep up absorbent material and place in an appropriate waste disposal container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Do not flush spill area with water or aqueous cleaning product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and Storage

**Precautions:**

Handle under an inert gas. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Non equilibrium conditions may increase the fire hazard associated with this product. Avoid contact with skin and eyes. Keep container tightly sealed. Avoid breathing vapors, spray or fumes. Avoid prolonged exposure. Provide adequate ventilation. Store in cool place in tightly closed container.

**Protective Measures:**

Put on appropriate personal protective equipment (see Section 8). Keep ignition sources away – Do not smoke. Protect against electrostatic discharge. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**General Occupational Hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Safe Storage Conditions:**

Store contents under an inert gas. Keep away from flame, sparks, excessive temperatures and open flame. Keep container tightly closed and sealed until ready for use. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (oxidizing agents, heat/fire sources) and food and drink. Store locked up.

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### Section 8. Exposure Controls/Personal Protection

#### Introductory Remarks:

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

#### Occupational Exposure Limits:

List	Components	CAS-No.	Type	Value
ACGIH	Chromium	7440-47-3	TWA	0.5 mg/m <sup>3</sup> (as Cr)
OSHA	Chromium	7440-47-3	PEL	0.5 mg/m <sup>3</sup> (as Cr)

#### Engineering Controls:

Properly operating chemical fume hood designed for hazardous/flammable chemicals and having an average face velocity of at least 100 feet per minute is required. Provide an eyewash/shower station.

#### Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual Protection Measures

##### Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale dusts. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

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### Section 8. Exposure Controls/Personal Protection

#### **Skin Protection**

##### **Hand Protection:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Neoprene or nitrile rubber.

##### **Other Skin Protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### **Respiratory Protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Section 9. Physical and Chemical Properties

##### **Physical State:**

Liquid.

##### **Color:**

Dark brown.

##### **Odor:**

Odorless.

##### **Odor Threshold:**

No data available.

##### **pH:**

No data available.

##### **Melting Point:**

No data available.



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### Section 9. Physical and Chemical Properties

<b>Boiling Point:</b>	140-160°C/1mm (284-320°F/34mm).
<b>Flash Point:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Specific Gravity:</b>	1.14-1.18 g/cm <sup>3</sup> .
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Water Solubility:</b>	No data available.
<b>Evaporation Rate:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>VOC Content:</b>	0 g/l.

VOCs are calculated following the requirements under 40 CFR, Part 59, Subpart C for Consumer Products and Subpart D for Architectural Coatings.

### Section 10. Stability and Reactivity

<b>Reactivity:</b>	No specific data available.
<b>Chemical Stability:</b>	Material is air sensitive and should be handled under an inert gas.
<b>Conditions to Avoid:</b>	Heat, ignition sources, contact with oxygen.
<b>Incompatible Materials:</b>	Oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: carbon oxides, organic fumes and chromium oxides. In the event of a fire: see section 5.
<b>Possibility of Hazardous Reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.

### Section 11. Toxicological Information

#### Information on Toxicological Effects

<b>Acute Toxicity</b>	: No specific data available.
<b>Irritation/Corrosion</b>	: No specific data available.
<b>Sensitization</b>	: No specific data available.
<b>Germ Cell Mutagenicity</b>	: No effects known.
<b>Carcinogenicity</b>	
<b>IARC</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



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### Section 11. Toxicological Information

<b>ACGIH</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
<b>NTP</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
<b>OSHA</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
<b>Reproductive Toxicity</b>	: This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	: No specific data available.
<b>Specific Target Organ Toxicity (single exposure)</b>	: Respiratory tract irritation.
<b>Specific Target Organ Toxicity (repeat exposure)</b>	: No specific data available.
<b>Aspiration Hazard</b>	: No specific data available.
<b>Information on the likely routes of exposure</b>	: No specific data available.
<b>Additional Information</b>	: None

### Section 12. Ecological Information

#### Numerical Measures of Toxicity

<b>Toxicity to Fish</b>	: No specific data available.
<b>Toxicity to daphnia and other aquatic invertebrates</b>	: No specific data available.
<b>Toxicity to algae</b>	: No specific data available.
<b>Persistence and Degradability</b>	
<b>Biodegradability</b>	: No specific data available.
<b>Bioaccumulative potential</b>	: No specific data available.
<b>Mobility in soil</b>	: No specific data available.
<b>Other Adverse Effects</b>	: Toxic to aquatic organisms with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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### Section 13. Disposal Considerations

#### Waste Treatment Methods

##### **Product**

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

##### **Contaminated packaging**

Empty containers retain product residue (liquid and vapors) and can be dangerous.

### Section 14. Transport Information

	<b>DOT</b>	<b>IMDG</b>	<b>IATA</b>
UN Number	UN1993	UN1993	UN1993
UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. Bis(ethylbenzene) chromium	FLAMMABLE LIQUID, N.O.S. Bis(ethylbenzene) chromium	FLAMMABLE LIQUID, N.O.S. Bis(ethylbenzene) chromium
Transport Hazard Classes	3	3	3
Packing Group	II	II	II
Environmental Hazards	Yes	Yes	Yes
Additional Information	-		-

##### **Special Precautions for User**

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

##### **Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

: Not applicable.

### Section 15. Regulatory Information

#### **TSCA (Toxic Substance Control Act):**

This product is not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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### Section 15. Regulatory Information

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

None known.

#### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Chromium	7440-47-3	

#### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chromium	7440-47-3	

#### New Jersey Right To Know Components

	CAS-No.	Revision Date
Chromium	7440-47-3	

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Section 16. Other Information

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals.

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### Section 16. Other Information

The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### HMIS Rating

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

#### History

<b>Date of printing</b>	: 4/15/16
<b>Date of issue/Date of Revision</b>	: 4/15/16
<b>Date of previous issue</b>	: None
<b>References</b>	: None available

#### Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DOT: US Department of Transportation  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
HMIS: Hazardous Materials Identification System  
IARC: International Agency For Research on Cancer  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
IMDG: International Maritime Code for Dangerous Goods  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
SARA: Superfund Amendments and Reauthorization Act  
VOC: Volatile Organic Compound

#### Disclaimer

**The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.**

**Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**