

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Carbide

1. Product and Company Identification

Trade Name: Cobalt carbide Chemical Formula: Co₂C, Co₃C

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 845-587-2436 / 845-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Note: The hazards and properties of this material are not fully known

Hazard Statements: H228 Flammable as powder H302 Harmful if swallowed

H317 May cause allergic skin reaction H351 Suspected of causing cancer

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P301+P312 If swallowed, call poison center/doctor

HMIS Health Ratings (0-4):

Health: 2 Flammability: 2 Physical: 1

3. Composition

Chemical Family: Metal Additional Names: N/A

Cobalt carbide (Co₂C):

Percentage: 100 wt% CAS #: N/A EC #: N/A

Cobalt carbide (Co₃C):

Percentage: 100 wt% (Alternate)

CAS #: N/A EC #: N/A

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection 0.1 mg/m³ as Co. metal dust and fume, long-term value Permissible Exposure Limits: Threshold Limit Value: 0.02 mg/m³ as Co, BEI, long-term value Special Equipment: None Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics Color Metallic grey Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 1768 °C Flash Point: N/A Autoignition Temperature: N/A Density: N/A Molecular weight: 129.877 g/mol (Co₂C), 188.81 g/cc (Co₃C) 10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents **Incompatible Conditions:** None **Hazardous Decomposition Products:** Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation, allergic reaction Ingestion: May be toxic May cause irritation Inhalation: Chronic: N/A N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** Median Lethal Dose: N/A Possible carcinogen Carcinogen:

Aquatic Toxicity: Moderate Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

12. Ecological Information

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids

Packing Group: III UN Number: UN3089

Proper Shipping Name: Metal powder, flammable, n.o.s. (Cobalt carbide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Research

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