

XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Beryllium Oxide

| 1. Product and Company Identification | | |
|---|---|--|
| Trade Name: | Beryllium Oxide | |
| Chemical Formula: | BeO | |
| Manufacturer/Supplier: | XI'AN FUNCTION MATERIAL GROUP CO., LTD | |
| Street: | No. 69, Gazelle Valley, High-Tech Zone | |
| City: | XI'AN | |
| State: Zin Code: | Shaanxi 710077 | |
| Zip Code: Country: | China | |
| Tel #: | +86-29-88993870/+86-13519132051 | |
| | 2. Hazards Identification | |
| Signal Word: | Danger | |
| Hazard Statements: | H301: Toxic if swallowed | |
| Hazard Statements: | H301: Toxic if swallowed H315: Causes skin irritation H317: May cause an allergic skin reaction H319 Causes serious eye irritation H330: Fatal if inhaled H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled H335: May cause respiratory irritation H350: May cause cancer H372: Causes damage to organs through prolonged or repeated exposure | |
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| | P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P308+P313: IF exposed or concerned: Get medical advice/attention P333+P313: If skin irritation or a rash occurs: Get medical advice/attention P337+P313: If eye irritation persists get medical advice/attention P362: Take off contaminated clothing and wash before reuse P403+P233: Store in a well-ventilated place. Keep container tightly closed P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations |
|---------------------------------------|--|
| HMIS Health Ratings (0-4): | |
| Health: | 4 |
| Flammability: | 0 |
| Physical: | 0 |
| | 3. Composition |
| Chemical Family: | Inorganic |
| Additional Names: | N/A |
| Parvillium Orida (PaO) | |
| Beryllium Oxide (BeO): Percentage: | 0-100 wt% |
| CAS #: | 1304-56-9 |
| EC #: | 215-133-1 |
| | |
| | 4. First Aid Procedures |
| General Treatment: | Seek medical attention if symptoms persist. |
| Special Treatment: | Treat symptomatically |
| Important Symptoms: | None |
| Inhalation: | Remove victim to fresh air. Supply oxygen if breathing is difficult. Do |
| | not use mouth-to-mouth method if victim ingested or inhaled the |
| | substance, give artificial respiration. Seek immediate medical attention. |
| Ingestion: | Give one to two glasses of water. Never induce vomiting or give |
| | anything by mouth to an unconscious person. Seek immediate medical |
| G1 - | attention. |
| Skin: | Wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention. |
| Eyes: | Flush eyes with water, blinking often for several minutes. Remove |
| 2,000 | contact lenses if present and easy to do. Continue rinsing. Seek |
| | immediate medical attention. |
| | 5. Firefighting Measures |
| - Flammability: | Non-flammable |
| Extinguishing Media: | Use water spray, alcohol- resistant foam, dry chemical, or carbon dioxide. |
| 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 |
|-----------------------------------|---|
| If Material Is Released/Spilled: | Wear appropriate respiratory and protective equipment specified in 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: | Keep product and empty container away from heat and sources of ignition. 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 |
| Ventilation: | compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit. |
| 8 | E. Exposure Controls and Personal Protection |
| Permissible Exposure Limits: | 0.002 mg/m ³ as BeO, long-term value |
| Threshold Limit Value: | 0.00005 mg/m^3 as BeO, long-term value |
| Special Equipment: | None |
| Respiratory Protection: | Dust Respirator. Follow OSHA respiratory regulations. |
| Protective Gloves: | Nitrile rubber gloves |
| Eye Protection: | Wear appropriate safety glasses or goggles |
| Body Protection: | Protective work clothing. Wear close-toed shoes and long sleeves/pants. |
| | 9. Physical and Chemical Characteristics |
| Color | White |
| Form: | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor: | N/A |
| Water Solubility: | Insoluble |
| Boiling Point: | 4300 °C |
| Melting Point: | 2572 °C |
| Flash Point: | N/A |
| Autoignition Temperature: | N/A |
| Density: Molecular weight: | 3.02 g/cc 25.01 g/mol |
| | |
| | 10. Reactivity |
| Stability: Reacts With: | Stable under recommended storage conditions Strong oxidizing agents |
| Incompatible Conditions: | Keep product and empty container away from heat and sources of |
| Hazardous Decomposition Products: | ignition. Metal fumes or oxides (Beryllium oxides) |
| | 11. Toxicological Information |
| Potential Health Effects: | |
| Eyes: | May cause irritation |
| Skin: | May cause irritation |
| | |

| Ingestion: Inhalation: Chronic: | May cause irritation May cause irritation N/A | |
|---|--|--|
| Signs & Symptoms: | Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling, of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing | |
| Aggravated Medical Conditions: | N/A | |
| Median Lethal Dose: | N/A | |
| Carcinogen: | Possible human carcinogen IARC: 1 - Group 1: Carcinogenic to humans (Beryllium oxide) | |
| | 12. Ecological Information | |
| Aquatic Toxicity: | | |
| Persistent Bioaccumulation Toxicity: | N/A | |
| Very Persistent, Very Bioaccumulative: | N/A | |
| Notes: | Not likely mobile in the environment due to its low water solubility. | |
| | 13. Disposal Considerations | |
| Dispose of in accordance with local, state, | national, and international regulations. 14. Transportation Data | |
| Hazardous: | Hazardous for transportation | |
| | POISON 6 | |
| Hazard Class: | 6.1 | |
| Packing Group: | II | |
| UN Number: | UN1566 | |
| Proper Shipping Name: | BERYLLIUM COMPOUNDS, N.O.S (Beryllium Oxide) | |
| | 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.

Document Last Revised: