

SAFETY DATA SHEET

AMTIR-1

Section 1 - Identification

Product Identifier:

Manufacturer's Name: Amorphous Materials, Inc.
Address: 3130 Benton Street, Garland, Texas 75042
Phone number: 972-494-5624
Emergency number: (972) 494-5624
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E-mail address: amorphousm@aol.com
Web site: www.AmorphousMaterials.com

Section 2 - Hazard Identification

Product Classified as: Non-hazardous. (See Section 9.)

Section 3 - Composition/Information On Ingredients

Ingredients: Germanium
Arsenic
Selenium

Product classified as: Non-hazardous. (See Section 9.)
Warning statement: None considered necessary.
A Threshold Limit Value (TLV) has not been established for AMTIR-1. Nor, has the Occupational Safety and Health Administration (OSHA) set a Permissible Exposure Limit (PEL).

Section 4 - First Aid Measures

No special first aid measures are required with this product. Normal first aid procedures should be available, such as:

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. An exposed person may need assistance in keeping his or her eye lids open. Get immediate medical attention.

Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation occurs.

Inhalation: Remove exposed person to fresh air. Closely monitor the victim for signs of respiratory problems. In such cases seek immediate medical assistance.

Ingestion: Seek medical attention immediately.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable

Flammable Limits: Not applicable

Special Fire Fighting Equipment Required: No special techniques are required. Use extinguisher type suitable for surrounding area.

Section 6 - Accidental Release Measures

Not applicable.

Section 7 - Handling & Storage

No special handling precautions are required except to protect the product. There are no incompatibilities.

Section 8 - Exposure Controls/Personal Protection

No special exposure controls or personal protective equipment is required in working with this product. Regular work procedures should be followed, such as:

Ventilation: Ventilation should be provided sufficient to remove any dusts, mists or odors that may evolve during processing. Local exhaust air of 100 lineal feet per minute (lfm) face velocity should be adequate.

Respiratory Protection: Ordinarily, respiratory protection is not required if adequate ventilation is provided. In unventilated areas a high efficiency respirator should be used.

Protective Clothing: Rubber gloves or plastic face shields should be provided.

Eye Protection: Chemical workers goggles or plastic face shields should be used to provide eye protection from dusts, fumes, mists or flying particles should product break or fragment during processing.

Section 9 - Physical & Chemical Properties

Appearance: Dark colored glassy solid

Odor: Odorless

Flammability: Non-flammable

Solubility: Insoluble

This product is compounded from toxic materials. Its final form is a dark glassy material. The extreme chemical inertness of this glass prevents deterioration in hostile environments due to heat or chemicals. Separation of the glass back into the original elements or their oxides is possible only with special high effort and does not occur in reality. The non-hazardous nature of this product has been echoed by OSHA and the U.S. Dept. Of Transportation. An OSHA official specifically stated “. . . for example, 29CFR1910.1018 does not apply when light emitting diodes containing gallium arsenide conductors are assembled into calculators or watches. That is because only minimal gallium arsenide will rub off onto the hands or volatilize during the process.” Gallium arsenide is a similar product. Similarly, the Chief of the Office of Hazardous Materials Standards of the U.S. Dept. of Transportation advised in written correspondence that “Based on information available to this office, gallium arsenide does not meet the definition of any of the hazardous materials prescribed in the Hazardous Materials Regulations (HMR; 49CFR Parts 171-180). Therefore, this material is not a hazardous material and is not subject to the HMR.” The same applies to AMTIR-1 since it is a similar product.

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Section 10 - Stability & Reactivity

Reactivity: Non-reactive
Chemical Stability: Stable
Incompatible Materials: None

Section 11 - Toxicological Information

The base materials for this product are considered hazardous. However, the manufacturing process compounds the base materials into a hard glassy product. It will not decompose with handling or absorb through the skin. Thus, no hazardous exposure is available to processors or users. Any hazards to users will be the same as from any other glass material.

Section 12 - Ecological Information

This product does not deteriorate or decompose over its lifetime and will not present an environmental hazard.

Section 13 - Disposal Considerations

Waste Disposal: Due to the possible value of scrap material, waste should be collected and returned to a vendor for salvage and/or reclamation.. Non-reclaimable material should be disposed of in accordance with appropriate local, state or federal regulations.

Section 14 - Transport Information

This product does not appear on the "List of Hazardous Materials" promulgated by the U.S. Department of Transportation. Therefore, labeling and placarding is not required. (See Section 9-Physical and Chemical Properties.)

Section 15 - Regulatory Information

Not applicable.

Section 16 - Other Information

Special Note: This Safety Data sheet is considered to be an essentially similar form to OSHA Form-174 (a non-mandatory MSDS format) and is submitted lieu thereof. This data is furnished gratuitously, independent of any sale of the product, only for your investigation and independent verification. While the information is believed to be correct, Amorphous Materials, Inc. makes no representation as to the absolute accuracy of the information contained herein.

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