

Product Safety Statement

Educational Iron Filings

Synonyms: Iron Filings; Steel Particles; Magnetic Iron Particles; Magnetic Steel Particles; Educational Iron Filings; Atomized Carbon Steel Particles

MiniScience Inc. supplies Educational Iron Filings for instructional use in schools, universities, STEM programs, laboratories, museums, and other educational environments.

The product consists primarily of spherical steel particles with a nominal particle-size of approximately **125 micrometers**. Internal quality-control testing indicates that this product is practically free from iron dust and particles smaller than **100 micrometers** typically comprise less than **1%** of the product.

Consumer Product Safety

Every lot of Iron filings is examined and tested to ensure conformity with MiniScience QC requirements as follows:

1. Spherical particles (Reject irregular, sharp, splinter shape particles).
2. Free from contaminations (Reject oil, debris, and organic matter contaminations)
3. Chemical/ Elemental testing (Reject if heavy metals are detected)

A representative X-ray fluorescence (XRF) analysis confirms that the material consists predominantly of iron with minor quantities of common steel alloying elements.

Based on the product as supplied, its intended educational use, available analytical information, and current evaluation under the OSHA Hazard Communication Standard (29 CFR 1910.1200), this material is **not classified as hazardous**.

Under normal handling conditions, the principal potential hazard is **mechanical irritation** or injury if particles enter the eyes, or respiratory tract. Good laboratory and classroom hygiene practices should be followed. Avoid creating unnecessary airborne dust, avoid rubbing the eyes while handling the product, and wash hands after use.

This Product Safety Statement is intended to provide a concise summary of the product's safe handling characteristics. It does not replace the applicable Safety Data Sheet (SDS), which should be consulted for complete health, safety, handling, storage, first-aid, fire-fighting, disposal, transportation, and regulatory information.