Ferro Silico Manganese 60/14

Material Safety Data Sheet

Section 1. Identification of the Substance and Company

Item	Detail
Product name	Ferro Silico Manganese 60/14
Chemical description	Ferro silico manganese (ferroalloy of manganese, silicon and iron)
Recommended use	Deoxidiser and alloying addition in steelmaking
Supplier	Ochnology Solution Private Limited, B-153, Sector-4, Defence Colony, Dehradun 248001, India
Telephone / email	+91 9286823642 / 43 | info@ochnology.com
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Section 2. Hazards Identification

Item	Detail
GHS classification	Not classified as hazardous under GHS
Signal word	None
Hazard statements	None
Other hazards	Dust may irritate the eyes, skin and respiratory tract. Prolonged or repeated inhalation of manganese-containing dust or fume may affect the nervous system. Fines may react slowly with moisture, releasing small amounts of hydrogen; keep dry and ventilated.

Section 3. Composition and Information on Ingredients

Component	CAS number	Typical range (%)
Manganese	7439-96-5	60 min
Silicon	7440-21-3	14 min
Iron	7439-89-6	Balance
Carbon	7440-44-0	2.0 max

Section 4. First Aid Measures

Item	Detail
Inhalation	Move the person to fresh air. Get medical attention if coughing or breathing difficulty persists.
Skin contact	Wash with soap and water. Get medical attention if irritation persists.
Eye contact	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if easy to do. Get medical attention if irritation persists.
Ingestion	Rinse mouth with water. Get medical attention if symptoms occur.

Section 5. Fire-Fighting Measures

Item	Detail
Suitable extinguishing media	Dry sand or dry powder. Do not use water on fines in a fire.
Specific hazards	Lumps do not burn. Fine dust may burn.
Protective equipment	Self-contained breathing apparatus if dust or fumes are present

Section 6. Accidental Release Measures

Item	Detail
Personal precautions	Avoid dust. Wear dust mask, goggles and gloves.
Environmental precautions	Prevent large quantities from entering drains.
Clean-up	Sweep or vacuum into closed containers without creating dust. Dispose of as non-hazardous solid waste.

Section 7. Handling and Storage

Item	Detail
Handling	Minimise dust formation. Use in a ventilated area or with local exhaust. Avoid breathing dust.
Storage	Store dry in a covered area, away from moisture. Keep fines away from water and acids.
Packing	As stated on the Technical Data Sheet

Section 8. Exposure Controls and Personal Protection

Item	Detail
Manganese (ACGIH TLV, as Mn)	Inhalable 0.1 mg/m³; respirable 0.02 mg/m³ (8 h TWA)
Engineering controls	Local exhaust ventilation or dust suppression where dust is generated
Eye and face	Safety goggles
Skin and hands	Gloves and protective clothing
Respiratory	Dust mask or respirator (FFP2 or higher) where dust levels are high

Section 9. Physical and Chemical Properties

Item	Detail
Appearance	Silver-grey metallic lumps
Odour	Odourless
Solubility in water	Insoluble
Density	About 6.0–6.5 g/cm³
Melting point	About 1,200–1,300 °C
Flash point	Not applicable
pH	Not applicable

Section 10. Stability and Reactivity

Item	Detail
Stability	Stable under normal conditions
Conditions to avoid	Dust generation; moisture on fines
Incompatible materials	Strong acids and strong oxidisers
Hazardous decomposition	None under normal conditions

Section 11. Toxicological Information

Item	Detail
Acute toxicity	Low acute toxicity.
Irritation	Dust may irritate the eyes, skin and upper respiratory tract.
Chronic	Chronic overexposure to manganese dust or fume may cause neurological effects (manganism). Avoid breathing dust.

Section 12. Ecological Information

Item	Detail
Ecotoxicity	Insoluble solid; not expected to be harmful in the quantities handled.
Persistence	Inorganic; not biodegradable.
Bioaccumulation	No bioaccumulation expected.

Section 13. Disposal Considerations

Item	Detail
Waste disposal	Dispose of in accordance with local, state and national regulations.

Section 14. Transport Information

Item	Detail
UN number	Not regulated
Transport hazard class	Not classified as dangerous goods
Marine pollutant	No

Section 15. Regulatory Information

Item	Detail
Classification	Not classified as hazardous under GHS.
Labelling	No hazard labelling required

Section 16. Other Information

Item	Detail
Issue date	03 November 2026
Prepared by	Ochnology Solution Private Limited