

MATERIAL SAFETY DATA SHEETS

COMPANY: Graystar*LLC
ADDRESS: 9 Simmonsville Road
Bluffton, SC 29910
PHONE: 843-815-5600

February 05, 2008

1. PRODUCT IDENTIFICATION/DESCRIPTION

PRODUCT NAME: FERROSILICON
SYNONYMS: Alox Dreg

2. COMPOSITION

Ingredient	CAS#	Typical Weight(%)	PEL-OSHA	TLV-ACGIH	Carcinogen (Y/N)
			(mg/m ³)	(mg/m ³)	
Iron	7436-89-6	78	N/A	N/A	No
Silicon	7440-21-3	16	15	10	No
Titanium	7440-32-6	5	N/A	N/A	No
Aluminum	7429-90-5	1	15	10	No

Impurities total less than 1% (Cr + Mg + V + Ni + Cu + Zr + Mo)

3. HAZARDS IDENTIFICATION / POTENCIAL HEALTH EFFECTS

EYE: Brittle material may produce small jagged flying pieces on impact with itself or other materials. The material is irritating to eyes.

SKIN: Not adsorbed through the skin. Sharp edges may produce cuts.

INGESTION: No known adverse effects, but ingestion is not recommended.

INHALATION: **Acute:** May cause coughing or shortness of breath.
Chronic: May affect breathing capacity.

4. FIRST AID MEASURES

EYES: Wash eyes with large amounts of water. Get medical attention, if needed.

SKIN: Wash with soap and water. Seek medical attention if symptoms persist.

INHALATION: If inhalation of high concentrations occurs, move to fresh air. If breathing has stopped, a certified professional should give CPR. Seek immediate medical attention.

INGESTION: If swallowed, seek medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Non-flammable
FLASH POINT: None
FIRE AND EXPLOSION POTENTIAL: None
UPPER AND LOWER FLAMMABLE LIMITS: None
AUTO IGNITION TEMPERATURE: None
SPECIAL FIRE FIGHTING PROCEDURE: None

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment (See section 8).
CLEANUP MEASURES: Normal cleanup procedures. Avoid generating dust. Dispose according to the standard landfill methods consistent with applicable Federal, State and Local laws.

7. HANDLING AND STORAGE

NORMAL STORAGE: General storage – ambient air temperature and pressure.
HANDLING: Avoid generating dust. See OSHA 29 CFR 1910-94 (Ventilation).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below PELs or TVLs.
RESPIRATORY PROTECTION: Recommended if TVLs or PELs are exceeded. Use NIOSH approved respirators.
SKIN and HAND PROTECTION: Gloves as desired by user.
EYE and FACE PROTECTION: Use safety glasses with side shields. If there is potential for exposure to particles which could cause mechanical injury to the eye, wear goggles.

9. PHYSICAL PROPERTIES

Appearance/Odor	Silvery granular metal/Odorless
pH	Not applicable
Boiling Point	Not Applicable
Melting Point	2700°C
Flash Point	None
Explosive Properties	None
Oxidizing Properties:	None
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Specific Gravity (H ₂ O = 1)	6.7
Solubility in Water	Insoluble
Solubility in Other Solvents	Not Applicable

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Strong mineral acids

CONDITIONS TO AVOID: Mixing with mineral acids may generate flammable and explosive hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Not Available

12. ECOLOGICAL INFORMATION

Not Available

13. DISPOSAL CONSIDERATIONS

Avoid landfill in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) - Not regulated as a hazardous material

15. REGULATORY INFORMATION

TSCA – The chemical components of this product are registered under the Toxic Substance Control Act (Title 40 CFR Part 710)

16. KEY

CAS	Chemical Abstracts Service
DOT	Department of Transportation
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act

17. DISCLAIMER

Although reasonable care has been taken in the preparation of the information contained herein, the originator and **Graystar*LLC** extends no warranties, makes no representation and assumes no responsibility as to the accuracy of suitability of such information for application to the purchaser's intended purposes or for consequences of its use.