

## MATERIAL SAFETY DATA SHEET

DATED : 01.04.2008

### 1. PRODUCT AND COMPANY

TRADE NAME:	FERRO SILICON MAGNESIUM
GROUP:	
SUPPLIER:	SNAM ALLOYS PVT. LTD., KARIAMANICKAM VILLAGE, PONDICHERRY - 605 106, INDIA.
TOXIC INFORMATION:	+91-413-2699440 & 2699106
RESPONSIBLE:	J.VENKATESAN
AUTHOR:	S.SRIKANTH
APPLICATION:	FOR INDUSTRIAL USE
MORE INFORMATION:	-

### 2. COMPOSITION

COMPOSITION	SPECIFICATIONS	
SILICON	43 - 48 %	CALCIUM 0.8 - 1.2 %
ALUMINIUM	0.5 - 1.5 %	MAGNESIUM 6.0 - 6.5 %
TOTAL RARE EARTHS	0.8 - 1.2 %	

### 3. HAZARDS IDENTIFICATION

#### MORE INFORMATION:

Not regarded as health or fire or an environmental hazard under current legislation.

### 4. FIRST AID MEASURES

#### GENERAL:

Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Get medical attention if any discomfort continues.

#### SKIN CONTACT:

Wash skin with soap and water.

#### EYE CONTACT:

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

#### INGESTION:

Rinse nose, mouth and throat with water.

### 5. FIRE FIGHTING MEASURES

#### SUITABLE EXTINGUISH MEDIA:

Use extinguishing media appropriate for surrounding fire.

#### FIRE AND EXPLOSION HAZARDS:

Ferrosilicon itself does not burn, but keep away from sparks/ignitions when there is a possibility for dusty handling. Wet ferro-silicon must not be added to a warm, afloat bath of metal.

#### PERSONAL PROTECTION WHEN FIREFIGHTING:

Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

#### SPECIAL FIREFIGHTING PROCEDURES:

Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk.

# Snam Alloys Pvt.Ltd.

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Nettapakkam Commune,

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## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: ar appropriate personal protective equipment - see Section 8.

### CLEANING MEASURES:

Spillage can be collected mechanically. Avoid generation and spreading of dust.

## 7. HANDLING AND STORAGE

### HANDLING:

Avoid handling which leads to dust formation.

### STORAGE:

Keep stored as dry and airy as possible.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE CONTROL:

Use engineering controls to reduce air contamination to permissible exposure level.

The concentrations of air pollutants shall be kept as far under the given exposure standards as possible. Unnecessary influence of pollutants shall be avoided and the conditions shall be proper. Provide eyewash station.

Well ventilated area.

Wash at the end of each work shift and before eating, smoking and using the toilet.

### RESPIRATORY PROTECTION:

If ventilation is insufficient, suitable respiratory protection must be provided. Dust filter P2 (for fine dust).

### EYE PROTECTION:

Use tight fitting goggles if dust is generated.

### HAND PROTECTION:

Use protective gloves made of: Rubber or plastic.

### SKIN PROTECTION:

Wear appropriate clothing if necessary.

### MORE INFORMATION:

References OES.

Ingredient comments

OES = Occupational Exposure Standard.

Exposure limit for nuisance dust, total inhalable dust is 10 mg/m<sup>3</sup> (8 hour TWA).

Exposure limit for nuisance dust, respirable dust is 4 mg/m<sup>3</sup> (8 hour TWA).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	IRREGULAR SHAPED	ODOUR:	N.A.
COLOUR:	GREY METALLIC ALLOY	SOLUBILITY:	N.A.
MELTING/FREEZING POINT:	1600 <sup>o</sup> C	BOILING POINT:	2100 <sup>o</sup> C
DENSITY:	3.5 gms/cc	FLASH POINT:	1400 <sup>o</sup> C
EXPLOSION LIMITS LEL-UEL %:	N.A.	PH (CONCENTRATE.):	N.A.
SOLUBILITY IN WATER:	Insoluble in water.	MOL MASS:	N.A.
VAPOUR PRESSURE:	960 mm Hg	VISCOSITY:	N.A.
SATURATION CONC.:	N.A.	AUTO IGNITION TEMP:	N.A.
DECOMPOSITION TEMP.:	N.A.	SMELL LIMIT:	N.A.
PH (SOLUTION):	N.A.	REL.VAPOUR DENSITY (AIR=1):	N.A.
BULK DENSITY	N.A.		

## 10. STABILITY AND REACTIVITY

### STABILITY:

Normally stable.

### REACTIVITY:

Avoid contact with: Water. Bases. Hydrofluoric acid.

Reacts with hydrofluoric acid to form toxic silicon

tetrafluoride. In contact with water

hydrogen, arsine and phosphine may be evolved.

## 11. TOXICOLOGICAL INFORMATION

### GENERAL:

Medical considerations

Symptomatic treatment.

### INHALATION:

Dust may irritate respiratory system.

### SKIN CONTACT

Prolonged or repeated contact may cause skin irritation. May give mechanical irritation.

### EYE CONTACT:

Dust may give mechanical irritation.

### INGESTION:

May cause discomfort.

## 12. ECOLOGICAL INFORMATION

### MOBILITY:

Insoluble in water.

### OTHER EFFECTS:

Represents no danger for the environment.

## 13. DISPOSAL

### DECONTAMINATION/DISPOSAL:

Dispose of at an approved land disposal site in accordance with local authority requirements.

Chemicals must be disposed of in compliance with the respective national or local regulations to ensure proper disposal.

### DISPOSAL GROUP:

Not dangerous waste.

## 14. TRANSPORT INFORMATION

UN NO:	-	CLASS:	-
PACKING GROUP:	NIL	HAZ. ID NO:	-
LABEL:	-	DANG. GOODS:	-

### PROPER SHIPPING NAME:

### MORE INFORMATION:

Division 4.3: Substances which emit flammable gases on contact with water.

462 Toxic solid which reacts with water, emitting flammable gases.

## 15. REGULATORY INFORMATION

### REFERENCES:

Revised in compliance with national regulations for health, fire and environment labelling. (The Working Environment Act, Pollution Control Act, Act relating to Prevention of Fire, Explosion and Accidents involving Hazardous Substances and the Fire Services) Transport legislation: The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (ADR/RID), The International Maritime Dangerous Goods (IMDG), International Air Transport Association Dangerous Goods (IATA) EU-directives : 67/548/EEC, 1999/45/EC, 2001/58/EC, 2004/73/EF (29. ATP) with later amendments.

**MORE INFORMATION:**

Not classified.

**EU directives**

Substances Directive 67/548/EEC as amended  
by 69/81/EEC, 70/189/EEC,  
73/146/EEC, 75/409/EEC, 79/831/EEC General  
Preparations Directive 88/379/EEC.

**Contains**

red phosphorus  
calcium  
ferrosilicon  
iron  
aluminium

**16. OTHER INFORMATION**

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