

# SAFETY DATA SHEET

## CRUZOR FERROCHROME ILMENITE (CHINA)

Infosafe No.: LQ4J9  
ISSUED Date : 09/06/2015  
ISSUED by: SIBELCO ASIA

### 1. IDENTIFICATION

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**GHS Product Identifier**

CRUZOR FERROCHROME ILMENITE (CHINA)

**Company Name**

SIBELCO ASIA

**Address**

Room 310-317, Longement Yes Tower  
No 369 Kaixuan Road  
Changning District  
Shanghai  
200051 China

**Telephone/Fax Number**

Tel: +86 18620100696

**Emergency phone number**

1800 638 556 (24h)

**Recommended use of the chemical and restrictions on use**

Ferrochrome Ilmenite is a product from the mineral sands separation process. Specifically Ferrochrome Ilmenite from the Ilmenite plant may be used amongst other things in steel making.

### 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Not classified as Hazardous according to the GHS.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Information on Composition**

Contains <0.1% respirable crystalline silica in the form of quartz.

**Ingredients**

Name	CAS	Proportion
Ilmenite	12789- 64- 9	> 92 %
Chromite		<5 %
Leucoxene		<2 %
Crystalline Silica (Quartz)	14808- 60- 7	<1 %

### 4. FIRST-AID MEASURES

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**Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**Skin**

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye contact**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

**First Aid Facilities**

Eyewash and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

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**Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases.

**Specific Hazards Arising From The Chemical**

The product is not combustible.

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures**

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling**

Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational exposure limit values**

No exposure standards have been established for this material. However, the available exposure limits for dust is listed below:

TWA mg/m<sup>3</sup>: 0.2(respirable), 0.5 (total dust)

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

**Biological Limit Values**

No biological limits allocated.

**Appropriate Engineering Controls**

Use with good general ventilation. If dust is produced, local exhaust ventilation should be used.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

**Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

**Hand Protection**

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

**Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

Black and brown sands

**Colour**

Black and brown

**Odour**

Odourless

**Decomposition Temperature**

Not available

**Melting Point**

3370°C

**Boiling Point**

Not available

**Solubility in Water**

Insoluble at 20°C

**Specific Gravity**

4.3-4.5

**pH**

7.1-8.8

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Odour Threshold**

Not available

**Viscosity**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Density**

Bulk density: 2400-2700kg/m<sup>3</sup>

**Flash Point**

Not available

**Flammability**

Non-combustible solid

**Auto-Ignition Temperature**

Not available

**Explosion Limit - Upper**

Not available

**Explosion Limit - Lower**

Not available

## 10. STABILITY AND REACTIVITY

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**Chemical Stability**

Stable under normal conditions of storage and handling.

**Reactivity and Stability**

Not available

**Conditions to Avoid**

Extremes of temperature and direct sunlight. Moisture.

**Incompatible materials**

Not available

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes.

**Hazardous Polymerization**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicity data available for this product.

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Inhalation of dusts may irritate the respiratory system.

**Skin**

Skin contact may cause mechanical irritation resulting in redness and itching.

**Eye**

Eye contact may cause mechanical irritation. May result in mild abrasion.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

Chromium (III) compounds is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Other Information**

RADIATION: In common with many naturally occurring mineral products, this product contains extremely low levels of naturally occurring radioactive elements - principally uranium and thorium. The main radiological hazard from the product is internal exposure to alpha particles given off in small amounts by inhaled dust. Low level gamma radiation from bulk or bagged stockpiles may present a lesser, external hazard.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

No ecological data are available for this material.

**Persistence and degradability**

Not available

**Mobility**

Insoluble in water at 20°C

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains or sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information**

Road and Rail Transport:

Not classified as Dangerous Goods for transport by road and rail.

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

MARPOL:

The product does not meet the conditions to be considered 'harmful to the marine environment' under the revised MARPOL Annex V.

**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

**Special Precautions for User**

Not available

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## 15. REGULATORY INFORMATION

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**Regulatory information**

Not available

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS created: June 2015

**References**

GB/T 16483: Safety data sheet for chemical products - Content and order of sections.

GB 12268: List of dangerous goods.

GB 13690: General rule for classification and hazard communication of chemicals.

GB/T 15098: The principle of classification of transport packaging groups of dangerous goods.

GBZ 2.1: Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

GB6944: Classification and code of dangerous goods.

American Conference of Industrial Hygienists (ACGIH

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## END OF SDS

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