Conforms to ANSI Z400.1-2004 Standard (United States, Canada).

Material Safety Data Sheet

Ferrous Carbonate

1 . Product and company identification

Common name: Ferrous Carbonate

Material uses: Included in animal feed

Supplier/Manufacturer:CHANGSHA WEICHUANG CHEMICAL CO., LTD
Room 1301.NewCity LandMark.No 208.labor East Road ,
ChangSha,HuNan,China
TEL:0086-731-85573000 85573222 85573666
FAX:0086-731-84765733
WEB:WWW.WEICHUANGCHEM.COM
MSN:JESSONCHEN@MSN.COM
EMAIL:JESSON@WEICHUANGCHEM.COM

In case of emergency:

MSDS authored by:

2 . Hazards identification

Physical state: Solid. (Powder.)

Odor: Odorless.

Color: Light brown to reddish brown.

Hazard status: This material is classified hazardous under OSHA regulations in the United States and the

Emergency overview:WHMIS Controlled Product Regulation in Canada.

WARNING !

CANCER HAZARD.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

**CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
LUNGS, RESPIRATORY TRACT, EYE, LENS OR CORNEA.**

Risk of cancer depends on duration and level of exposure.

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes: No known significant effects or critical hazards.

Skin: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Potential chronic health: Carcinogenic effects: Classified 1 (Known to be human carcinogens.) by NTP, + (Proven.)

Effects:by NIOSH [Silica crystalline, quartz]. Classified A2 (Suspected for humans.) by ACGIH, 2A (Probable for human.) by IARC [Silica crystalline, quartz]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Aluminum Oxide]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Magnesium oxide].
Mutagenic effects: Not available.
Teratogenic effects: Not available.

Medical conditions aggravated by over-exposure:

Repeated or prolonged exposure to the substance can produce target organ damage.

See toxicological information (section 11)

3 . Composition/information on ingredients

United States

Name	CAS number	%
Iron carbonate	563-71-3	60 - 100
Silica crystalline, quartz	14808-60-7	5 - 10
Aluminum Oxide	1344-28-1	

Canada

Name	CAS number	%
Iron carbonate	563-71-3	60 - 100
Silica crystalline, quartz	14808-60-7	5 - 10
Aluminum Oxide	1344-28-1	1-5

4 . First aid measures

Eye contact: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

Ingestion::Do not induce vomiting.

Never give anything by mouth to an unconscious person.

Get medical attention if symptoms appear.

Notes to physician:No specific antidote. Medical staff must contact Poison Control Center.

5 . Fire-fighting measures

Flammability of the product: Non-flammable.

Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not suitable: None known.

Special exposure hazards: No specific hazard.

Special protective: Fire-fighters should wear appropriate protective equipment and self-contained breathing **equipment for fire-fighters:**apparatus (SCBA) with a full face-piece operated in positive pressure mode

6 . Accidental release measures

Personal precautions: Immediately contact emergency personnel.

Keep unnecessary personnel away.

Use suitable protective equipment.

Environmental precautions:

Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up:

If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

7 . Handling and storage

Handling: Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

United States

Product name: Exposure limits

Iron carbonate:

ACGIH TLV (United States, 1/2005).

TWA: 1 mg/m3 8 hour(s). Form: All forms

NIOSH REL (United States, 12/2001).

TWA: 1 mg/m3 10 hour(s). Form: Soluble

OSHA PEL 1989 (United States, 3/1989).

TWA: 1 mg/m3 8 hour(s). Form: Soluble

Silica crystalline, quartz:
ACGIH TLV (United States, 1/2005).
TWA: 0.05 mg/m3 8 hour(s). Form: Respirable fraction
NIOSH REL (United States, 12/2001).
TWA: 0.05 mg/m3 10 hour(s). Form: All forms.
OSHA PEL 1989 (United States, 3/1989).
TWA: 0.1 mg/m3 8 hour(s). Form: Respirable dust

Aluminum Oxide
ACGIH TLV (United States, 1/2005).
TWA: 10 mg/m3 8 hour(s). Form: All forms.
NIOSH REL (United States, 12/2001).
TWA: 5 mg/m3 10 hour(s). Form: All forms.
OSHA PEL (United States, 8/1997).
TWA: 5 mg/m3 8 hour(s). Form: Respirable fraction
TWA: 15 mg/m3 8 hour(s). Form: Total dus

Canada

Product name

Iron carbonate :ACGIH TLV (United States, 1/2005).
TWA: 1 mg/m3 8 hour(s). Form: All forms
Silica crystalline, quartz:ACGIH TLV (United States, 1/2005).
TWA: 0.05 mg/m3 8 hour(s). Form: Respirable fraction

Aluminum Oxide:ACGIH TLV (United States, 1/2005).
TWA: 10 mg/m3 8 hour(s). Form: All forms.

Engineering measures:
Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Eyes: Safety glasses.

Skin: Lab coat.

Respiratory:A respirator is not needed under normal and intended conditions of use.

Hands: Natural rubber (latex).

HMIS Code/Personal:B

protective equipment
Personal protection in case of a large spill:
Safety glasses, goggles or face shield. Impervious gloves.
Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear

Hygiene measures: Wash hands, forearms and face thoroughly after handling compounds and before eating,smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

Physical state: Solid. (Powder.)

Color: Light brown to reddish brown.

Odor: Odorless.

Melting/freezing point:2050°C (3722°F) based on data for: Aluminum Oxide. Weighted average: 1775°C (3227°F)

Relative density:3.8 (Water = 1)

Solubility: Insoluble in cold water, hot water.

10 . Stability and reactivity

Stability and reactivity: The product is stable.

Incompatibility with various: Reactive with oxidizing materials.

Substances

Hazardous polymerization: Will not occur.

Conditions of reactivity: Not available.

11 . Toxicological information

Acute Effects

Eyes: No known significant effects or critical hazards.

Skin: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards

Ingestion: No known significant effects or critical hazards.

Potential chronic health: Carcinogenic effects: Classified 1 (Known to be human carcinogens.) by NTP, + (Proven.)

Effects:by NIOSH [Silica crystalline, quartz]. Classified A2 (Suspected for humans.) by ACGIH, 2A (Probable for human.) by IARC [Silica crystalline, quartz]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Aluminum Oxide]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Magnesium oxide].
Mutagenic effects: Not available.
Teratogenic effects: Not available.

Target organs:

Contains material which causes damage to the following organs: lungs, upper respiratory tract, eye, lens or cornea**.**

12 . Ecological information

Environmental precautions: No known significant effects or critical hazards.

Products of degradation: These products are carbon oxides and water. Some metallic oxides.

Toxicity of the products of biodegradation: The products of degradation are more toxic than the product itself.

13 . Disposal considerations

Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

14 . Transport information

Regulatory information

UN/ IMDG/ IATA DOT/ TDG : Not regulated.

15 . Regulatory information

United States

HCS Classification: Carcinogen target organ effects

U.S. Federal regulations:

TSCA 6 proposed risk management: Lead
TSCA 8(b) inventory: All components listed.
TSCA 12(b) annual export notification: Lead
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Aluminum Oxide; Silica crystalline, quartz
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Aluminum Oxide: Immediate (acute) health hazard; Silica crystalline, quartz: Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: Copper; Lead; Arsenic; Cadmium
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

Form R - Reporting:	Product name	CAS number	Concentration
	Aluminum Oxid	1344-28-1	1-5

Requirements

Supplier notification:	Aluminum Oxid	1344-28-1	1-5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations: Pennsylvania RTK: Iron carbonate: (environmental hazard, generic environmental hazard); Aluminum Oxide: (environmental hazard, generic environmental hazard); Silica crystalline, quartz: (generic environmental hazard); Calcium Oxide: (generic environmental hazard); Magnesium oxide: (generic environmental hazard); Manganese: (environmental hazard, generic environmental hazard); Copper: (environmental hazard, generic environmental hazard); Lead: (environmental hazard, generic environmental hazard); Arsenic: (environmental hazard, generic environmental hazard); Cadmium: (special hazard, environmental hazard, generic environmental hazard)
Massachusetts RTK: Aluminum Oxide; Silica crystalline, quartz; Calcium Oxide; Magnesium oxide; Manganese; Copper; Lead; Arsenic; Cadmium
New Jersey: Aluminum Oxide; Silica crystalline, quartz; Calcium Oxide; Magnesium oxide; Manganese; Copper; Lead; Arsenic; Cadmium

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Silica crystalline, quartz	yes	no	no	no
Cadmium	yes	yes	0.05 µg/day (inhalation)	yes
Lead	yes	yes	0.05 µg/day (ingestion))	yes
Arsenic	yes	no	0.06µg/day (inhalation)	no

Canada

WHMIS (Canada): Class D-2A: Material causing other toxic effects (Very toxic)

DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

International lists: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea(TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Label requirements (U.S.A.):

CANCER HAZARD.
CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
LUNGS, RESPIRATORY TRACT, EYE, LENS OR CORNEA

Hazardous Material Information System (U.S.A.):HMIS RATING

4- Extreme
3- Serious
2- Moderate
1- Slight
0- Minimal
See section 8 for more detailed information on personal protection

National Fire Protection Association (U.S.A.):Health:Flammability,Reactivity,Special

ReferencesANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

Notice to reade