

Safety Data Sheet

Product name: Steel Grit

The content and format of this SDS is accordant with GB/T 16483-2008 and GB/T 17519-2013

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1. Identification of the substance/preparation and of the company/undertaking

.Product name: Steel Grit

.Manufacturer/Supplier: Zibo TAA Metal Technology Co., Ltd

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.Recommended use of the chemical and restrictions on use: Cleaning and strengthening of metal surface. Restrictions on use: Do NOT use it in an application which may contaminate food or do harm to human health.

2. Hazards identification

Emergency overview:

Balls or ball-like granules. It has many colors and is odorless. The product is not flammable and has no special danger.

.GHS hazard classification per GB 30000. 2-2013~GB 30000. 29-2013:

Physical hazards	Health hazards	Environmental hazards
Explosives-not classified Flammable gases-not classified Aerosols-not classified Gases under pressure- not classified Flammable liquids- not classified Flammable solids-not classified Self-reactive substances and mixtures-not classified Pyrophoric liquids-not classified Pyrophoric solids-not classified Self-heating substances and mixtures-not classified Substances and mixtures, which in contact with water, emit flammable gases-not classified Oxidizing liquids-not classified Oxidizing solids-not classified Organic peroxides-not classified Corrosive to metals-not classified	Acute toxicity (oral)- not classified Acute toxicity (dermal)-not classified Acute toxicity (inhalation)-not classified Skin corrosion/irritation-not classified Serious eye damage/eye irritation- not classified Respiratory sensitizer-not classified Skin sensitizer-not classified Germ cell mutagenicity- not classified Carcinogenicity- not classified Toxic to reproduction- not classified Effects on or via lactation-not classified Specific target organ toxicity, single exposure- not classified Specific target organ toxicity, repeated exposure- not classified Aspiration hazard- not classified	Acute hazards to the aquatic environment-not classified Chronic hazards to the aquatic environment-not classified Hazard to the ozone layer-not classified

.Signal word: Not applicable.

.Symbol: Not applicable.

.Hazard Statement:

No relevant classification for this product.

.Prevention Precautionary Statements:

No special requirements.

.Response Precautionary Statements:

No special requirements.

.Storage precautionary statements:

No special requirements.

.Disposal precautionary statements:

No special requirements.

Physical and chemical hazards: Balls or ball-like granules. It has many colors and is odorless. The product is not flammable and has no special danger.

Health hazards: No hazards are found.

Environmental hazards: No hazards are found.

Other hazards: No information available.

3. Composition/information on ingredients

Product description: substance (); preparation/mixture (√)

Ingredient (s)	CAS number	% by weight
Iron	7439-89-6	98%
Others	--	2%

4 First aid measures

Persons using this product should consult a physician or other medical professional if an accident involving this product in injury. Specific first-aid measures are as follows:

.Eyes Contact: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing. If eye irritation persists: get medical advice/attention.

.Skin Contact: No special measures as there is no hazard for normal contact.

.Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

.Ingestion: Rinse mouth. Do not induce vomiting without professional instruction.

.Acute effect and delayed effect: Acute effect: not found. Delayed effect: not found.

.Personal protective equipment: Recommend wearing protective gloves (e.g. rubber gloves). Wear respirators and safety goggles when exposure limits are exceeded or working in a dusty environment.

.Indication of any immediate medical attention and special treatment needed: No special requirements.

5. Fire-fighting measures

.Extinguishing Media: In case of a fire, use dry chemical for small fire; water fog, foam or CO₂ for large fire. Seek advice from local fire-fighting authority. Seek advice from local fire-fighting authority.

.Special hazards arising from the chemical: The product is not flammable. No special danger is found.

.Special Fire-Fighting Method (This is for fire caused by other ignition sources):

For initial fire, use dry powder, carbon dioxide, etc.

For large fire, it is effective to use fire foam, etc. to shut off air supply.

Fire-fighters must wear self-contained breathing apparatus and full protective equipment (e.g. fire-retardant clothing).

Deny unnecessary entry to the place around the fire.

Remove containers from fire area if it can be done without risk.

Cool surrounding facilities, etc. with water spray.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

6. Accidental release measures

.Personal precautions: Use proper personal protective equipment as indicated in Section 8.

.Emergency procedures: Due to the nature of this product, there is no special requirement.

.Environmental Precautions: Keep collected waste out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

.Measures for Cleaning/Collection:

Due to the nature of this product, there is no special measure for collection.

Collect it into a proper container for disposal.

Avoid generating dust during collection and clean-up.

7. Handling and storage

.Precautions for safe handling:

Wash hands thoroughly after handling.

Avoid damage of packaging or containers during handling.

.Storage:

.Requirements to be met by storerooms: Store it in a well-ventilated, cool and dry store room.

.Incompatible materials: No special requirement for this product.

.Packing material: Plastic or paper bags contained in cardboard boxes.

.Additional Information: The storeroom should be equipped with proper facilities for accidental leakage and fire.

8. Exposure controls/personal protection

.Occupational Exposure Limits:

Ingredients	OELs (mg/m ³) (GBZ 2.1-2007)				ACGIH TLV-TWA	
	MAC	PC-TWA	PC-STEL	remark	TLV-TWA	remark
No ingredients have an exposure limit	--	--	--	--	--	--

.Monitoring Method: The hazardous substances should be monitored per GBZ 159 “*Sampling code for monitoring of hazardous substances in workplace air*”. The well-accepted monitoring methods of other countries are also can be adopted.

.Biological limit: Not data available

.Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Install washer eyes and safety showers near to the handling and storage area.

.Personal Protective Equipment (for workers) :

.Protection of Hands:

Recommend wearing protective gloves for industrial hygienic purpose.



.Protection of Eyes: Wear safety glasses when working in a dusty environment.



.Respiratory Protection: No special requirements.

.Protection of Body: No special requirements.

.General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

9. Physical and chemical properties

General Information	
Form	Angular
Color	Silvery white/silvery gray/ brilliant blue
Odor	Odorless
pH Value	No data available
Boiling Range	1480°C
Melting point/Melting range	No data available
Flash point	Not applicable
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Density	$\geq 7.0\text{g/cm}^3$
Relative Vapor density	No data available
Vapor pressure (@20°C)	No data available
Solubility in/Miscibility with Water	Insoluble in water
n-octanol/Water Partition Coefficient	No data available
Self-igniting	No data available
Decomposition Temperature	No data available
Odor Threshold Value	No data available
Evaporation Rate	No data available
Flammability (solid, gas, etc.)	This product is not classified as flammable solid.

10. Stability and reactivity

- .Chemical Stability:** Stable under normal temperatures and pressures.
- .Possibility of hazardous reactions:** The product is not flammable. No special danger is found.
- .Conditions to Avoid:** No special requirement for this product.
- .Incompatible materials:** No special requirement for this product.
- .Hazardous decomposition products:** No hazardous decomposition products are found.

11. Toxicological information

- .Product Toxicity Data:** The toxicity data of this product has not been determined by testing or research, but to our best knowledge and reference, this product is not a toxic product.

Ingredient (s)/Product	CAS#	LD 50/LC 50 (median lethal dose)
Iron	7439-89-6	Acute toxicity (Oral) LD ₅₀ > 20,000 mg/kg (rat) Data source: ECHA Acute toxicity (Inhalation, dust) LD ₅₀ > 100 mg/m ³ /6h (rat) Data source: ECHA

- .Serious eye damage/eye irritation:** No classification for this product.
- .Skin corrosion/irritation:** No classification for this product.
- .Respiratory /Skin sensitizer:** No classification for this product.
- .Germ cell mutagenicity:** No classification for this product.
- .Carcinogenicity:** No classification for this product.
- .Reproductive Toxicity:** No classification for this product.
- .Specific target organ toxicity, single exposure:** No classification for this product.
- .Specific target organ toxicity, repeated exposure:** No classification for this product.
- .Aspiration hazard:** No classification for this product.
- .Effects on or via lactation:** No classification for this product.
- .Toxicokinetics, metabolism and distribution of information:** No relevant information.
- .Other health hazards:** No relevant information.

12. Ecological information

- .Ecotoxicity:** No data available for the whole product.
- .Persistence and Degradability:** No data available.
- .Bioaccumulative Potential:** No data available.
- .Mobility in Soil:** As it is in solid status, it can hardly move in soil.

13. Disposal considerations

- Chemical Waste:** Transport to specialized waste disposal sites for disposal. It must strictly follow local regulations for disposal.
- Contaminated packaging:** The container or packaging may remain noxious substance and should be disposed as a hazardous waste.
- Cautions for disposal:**
 - Do not allow product to reach sewage system.
 - Do not throw it into any open bodies of water.
 - Waste recycling must be operated strictly according to relevant regulations.

14. Transport Information

DOT/ Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

.Proper Shipping Name: Not regulated.

.Hazard Class: Not classified.

.UN Code: Not regulated.

.Packing Group: Not classified.

.Packing Group Symbol: Not classified.

.Marine Pollutant (Yes/No): No

.EMS NO.: Not regulated.

.Note:

Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipments and emergency facilities for handling with release; do NOT transport this product together with incompatible substances.

15. Regulatory information

.Laws and Regulations of China:

.General rule for classification and hazard communication of chemicals (GB 13690-2009):

Physical hazards: Not classified.

Health hazards: Not classified.

Environmental hazards: Not classified.

.The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T 15098-2008):

Not applicable

.Dangerous Chemicals List (GB 12268-2012): Not listed.

.Dangerous chemicals directory (2015): Not applicable

.Production Safety Law of the People's Republic of China: As for safe production and management, emergency handling and legal liability, comply with relevant provisions of this law.

.Occupation Disease Prevention Law the People's Republic of China: As for precautions, prevention, management and occupational disease diagnosis, comply with relevant provisions of this law.

.The Environment Protection Law of the People's Republic of China: As for the prevention of environment pollution and environment protection, comply with relevant provisions of this law.

.International Laws and Regulations:

.TSCA (Toxic Substance Control Act): Iron (CAS: 7439-89-6) is listed in the U.S. Toxic Substances Control Act Chemicals Substance Inventory List.

. (EC) 1272/2008 Annex VI Table 3.1:

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
Not applicable	Not applicable	Not applicable

.Carcinogenicity categories: Not listed by EPA, NTP, ACGIH and IARC.

.Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

16. Other information

DISCLAIMER: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

References:

GB 16483-2008, GB 13690-2009, GB/T 17519-2013, GB 30000.2-2103~30000.29-2103, GB/T 15098-2008, GB12268-2012.

Full description of some acronyms:

GHS-Globally Harmonized System of Classification and Labelling of Chemicals

CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA-Occupational Safety and Health Administration

IARC- International Agency for Research on Cancer

NTP- The National Toxicology Program

IMO-International Maritime Organization

IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association

ICAO-International Civil Aviation Organization

TSCA-Toxic Substance Control Act

ECHA- European Chemicals Agency

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