

## Centre Testing International Group

# SDS

**Report No. : A2200409108101001**

**Company Name ZHEJIANG JIAXING NANHU ELECTRONIC  
shown on Report: EQUIPMENT GROUP CO.,LTD**

**Address: JIAXING ZHEJIANG CHINA THE NORTHERN  
YUBU HIGHWAY TOWN NANHU DISTRICT**

**Sample Name: FERRITE MAGNET**

Reviewed by:

*Gu CuiLi*

Approved by:

*Chen Kaihua*

Issue date:

Nov. 24, 2020



No. R295821537

**Safety Data Sheet**
**FERRITE MAGNET**

Version: V2.0.0.1

Report No.: A2200409108101001

Creation Date: 2020/11/24

Revision Date: 2020/11/24

\*Prepared according to EU regulation No. 2015/830

**1 Identification of the substance/mixture and of the company/undertaking**
**|Product identifier**

<b>Product Name</b>	FERRITE MAGNET
<b>Common Name/Trade Name</b>	Magnet
<b>CAS No.</b>	1309-37-1
<b>EC No.</b>	215-168-2
<b>Molecular Formula</b>	Fe <sub>2</sub> O <sub>3</sub>
<b>REACH Registration Number</b>	-

**| Relevant identified uses of the substance or mixture and uses advised against**

<b>Relevant identified uses</b>	Loudspeaker.
<b>Uses advised against</b>	None.

**| Details of the supplier of the Safety Data Sheet**

<b>Name of the company</b>	ZHEJIANG JIAXING NANHU ELECTRONIC EQUIPMENT GROUP CO.,LTD
<b>Address of the company</b>	JIAXING ZHEJIANG CHINA THE NORTHERN YUBU HIGHWAY TOWN NANHU DISTRICT
<b>Post code</b>	-
<b>Telephone number</b>	0573-82166711
<b>Fax number</b>	0573-82166718
<b>E-mail address</b>	<a href="mailto:116752889@qq.com">116752889@qq.com</a>

**| Emergency telephone number**

<b>Emergency telephone number</b>	0573-82166711
<b>Opening hours</b>	24h

**2 Hazards identification**
**|CLP classification according to Regulation (EC) No. 1272/2008**

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance.

**| GHS Label elements**

<b>Hazard pictograms</b>	Not applicable
<b>Signal word</b>	Not applicable

**| Hazard statements**

<b>Hazard statements</b>	Not applicable
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**| Precautionary statements**

Prevention

<b>Prevention</b>	Not applicable
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Response

<b>Response</b>	Not applicable
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Storage

<b>Storage</b>	Not applicable
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Disposal

<b>Disposal</b>	Not applicable
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**| Other hazards**

	Not applicable.
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**3 Composition/information on ingredients**

**| Substance/mixture**

	Substance
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Component	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight % content (or range)
ferric oxide	1309-37-1	215-168-2	-	Not Classified	100

**4 First-aid measures**

**| Description of first aid measures**

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Fresh air, rest.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

**| Most important symptoms/effects, acute and delayed**

<b>1</b>	Please see section 11.
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**| Indication of any immediate medical attention and special treatment needed**

1	Treat symptomatically.
2	Symptoms may be delayed.

**5 Fire-fighting measures**

**|Extinguishing media**

<b>Suitable extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable extinguishing media</b>	There is no restriction on the type of extinguisher which may be used.

**| Specific hazards arising from the substance or mixture**

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	Not considered a significant fire risk, however containers may burn.

**|Advice for firefighters**

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

**6 Accidental release measures**

**|Personal precautions, protective equipment and emergency procedures**

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing mist or dust.

**| Environmental precautions**

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

**|Methods and materials for containment and cleaning up**

1	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
2	Use clean, non-sparking tools to collect absorbed material.
3	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7 Handling and storage**

**|Precautions for safe handling**

u Protective measures

1	Handling is performed in a well ventilated place.
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2	Avoid contact with eyes.
3	Avoid inhalation of dust or mist.
<ul style="list-style-type: none"> <li>Measures to prevent fire</li> </ul>	
1	Keep away from heat/sparks/open flames/ hot surfaces.
<ul style="list-style-type: none"> <li>Measures to prevent aerosol and dust generation</li> </ul>	
1	Avoid formation of dust and aerosols.
2	Provide appropriate exhaust ventilation at places where dust is formed.
<ul style="list-style-type: none"> <li>Advice on general occupational hygiene</li> </ul>	
1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

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

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

**| Specific end use(s)**

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.
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**8 Exposure controls/personal protection**

**| Control parameters**

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
ferric oxide	USA - NIOSH	-	1	-	-
	South Korea	-	5	-	-
	Ireland	-	1	-	2
	Hungary	-	6	-	-
	Denmark	-	1	-	2
	Australia	-	1	-	-

- Biological limit values

<b>Biological limit values</b>	No relevant regulations
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- Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300.1~GBZ/T 300.160-2017; GBZ/T 300.161~GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

- Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
ferric oxide	Inhalation	No data available	No data available	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

u Predicted No Effect Concentration (PNEC)

<b>Predicted No Effect Concentration (PNEC)</b>	No information available
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**Engineering controls**

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

**Personal protection equipment**

<b>General requirement</b>	No special requirements, please see the description below.
<b>Eye protection</b>	In general situation, eye protection is not needed. In the production process, when contacting with dust, tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand protection</b>	In general situation, hand protection is not needed.
<b>Respiratory protection</b>	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and body protection</b>	In general situation, skin and body protection are not needed.

**9 Physical and chemical properties and safety characteristics**

**Physical and chemical properties**

<b>Appearance</b>	Dark gray solid
<b>Odor</b>	No smell
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing point(°C)</b>	1565
<b>Initial boiling point and boiling range(°C)</b>	No information available
<b>Flash point(Closed cup, °C)</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	Not combustible

<b>Upper/lower explosive limits[%(v/v)]</b>	Upper limit: Notexplosive; Lower limit: Notexplosive
<b>Vapor pressure</b>	Not applicable
<b>Vapor density(Air = 1)</b>	Not applicable
<b>Relative density(Water=1)</b>	5.24
<b>Solubility</b>	Insoluble in water
<b>n-octanol/water partition coefficient</b>	No information available
<b>Auto-ignition temperature(°C)</b>	No information available
<b>Decomposition temperature(°C)</b>	No information available
<b>Viscosity</b>	Not applicable
<b>Explosive properties</b>	Notexplosive
<b>Oxidizing properties</b>	Notoxidizing

## 10 Stability and reactivity

### | Stability and reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	Reacts with active metals and poses an explosive potential or fire.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### | Acute toxicity

<b>Acute toxicity</b>	No information available
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### | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
ferric oxide	Category 3	Not Listed

### | Others

ferric oxide(Component)	
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met

<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

## 12 Ecological information

### |Acute aquatic toxicity

<b>Acute aquatic toxicity</b>	No information available
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### |Chronic aquatic toxicity

<b>Chronic aquatic toxicity</b>	No information available
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### |Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
ferric oxide	Low	Low

### |Bioaccumulative potential

Component	Bioaccumulative potential	Comments
ferric oxide	Low	Log Kow=0.5294

### |Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
ferric oxide	Low	23.74

### |Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
ferric oxide	not PBT/vPvB

## 13 Disposal considerations

### |Disposal considerations

<b>Waste chemicals</b>	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
<b>Contaminated packaging</b>	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
<b>Disposal recommendations</b>	Refer to section waste chemicals and contaminated packaging.

## 14 Transport information

### | Label and Mark

Transporting Label	Not applicable
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### | IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### | IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### | UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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## 15 Regulatory information

### | International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
ferric oxide	√	√	√	√	√	√	√	√	√

- [EINECS] European Inventory of Existing Commercial Chemical Substances
- [TSCA] United States Toxic Substances Control Act Inventory
- [DSL] Canadian Domestic Substances List
- [IECSC] China Inventory of Existing Chemical Substances
- [NZIoC] New Zealand Inventory of Chemicals
- [PICCS] Philippines Inventory of Chemicals and Chemical Substances
- [KECI] Existing and Evaluated Chemical Substances
- [AICS] Australia Inventory of Chemical Substances
- [ENCS] Existing And New Chemical Substances

### | European chemical inventory

Component	A	B	C	D	E	F	G
ferric oxide	x	x	x	√	√	x	x

- [A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
- [B] Substances requiring authorisation under EU REACH regulation
- [C] Substances restricted under EU REACH
- [D] Pre-registered substances under EU REACH
- [E] Registered substances under EU REACH
- [F] Substance Evaluation – CoRAP under EU REACH
- [G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

- “√” Indicates that the substance included in the regulations.
- “x” No data or not included in the regulations.

## 16 Other information

### | Information on revision

<b>Creation Date</b>	2020/11/24
<b>Revision Date</b>	2020/11/24
<b>Reason for revision</b>	-

## | Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

## | Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>OW</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment

## | Disclaimer

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