



TEST REPORT

No.: C3190220017-CO DATE: Feb. 27, 2019

APPLICANT:

NINGBO LIHE MAGNETIC INDUSTRY CO., LTD No.18, 6th Jing Road, Beilun, Ningbo, 315801 China

DESCRIPTION OF SAMPLES:

Sample Name : Iron Fillings Model No. : IFDRM

Brand Name : /

Manufacturer Name : NINGBO LIHE MAGNETIC INDUSTRY CO., LTD

Buyer Name : /
Country of Origin : /
Country of Destination : /

Sample Receiving Date : Feb. 21, 2019

Testing Period : Feb. 21, 2019 to Feb. 27, 2019

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in

accordance with Regulation (EC) No 1907/2006, 1272/2008, Regulation

(EU) No 2015/830 and are provided per attached.

Authorized by: CTS (Ningbo) Testing Service Technology Co., Ltd.



Lab Manager

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Trade Name: Iron Fillings

Print Date: Feb. 27, 2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: Iron Fillings

· Registration number: Data not available

· Product Code: IFDRM

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against on
- · Application of the substance/ mixture: Iron Fillings.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

N.B. NINGBO LIHE MAGNETIC INDUSTRY CO., LTD

No.18, 6th Jing Road, Beilun, Ningbo, 315801 China

Tel: +86-574-86176303 **E-mail:** lln@liihemag.com

- · Only Representative/other EU contact point: Information not available.
- · Further information obtainable from: N.B. NINGBO LIHE MAGNETIC INDUSTRY CO., LTD
- · 1.4 Emergency telephone number

General in EU

Tel: 112 (Available 24 hours a day)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008: The product is not classified according to CLP Regulation (EC) 1272/2008.

· Classification system:

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

- · 2.2 Label elements
- · Labeling according to Regulation (EC) No 1272/2008: The product is labeled according to CLP Regulation.
- · Hazard pictograms: Not applicable
- · Signal word: Not applicable
- · Hazard statements: Not applicable
- · Precautionary statement: Not applicable
- · SPECIAL RULES FOR SUPPLEMENTAL LABEL ELEMENTS FOR CERTAIN MIXTURES:

EUH210 — 'Safety data sheet available on request'.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment

PBT: Not applicable **vPvB:** Not applicable

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SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterization: Mixture
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Component:		
CAS No.: 1309-37-1	Diiron trioxide	98%
EC No.: 215-168-2	substance with a Community workplace exposure limit	90%
CAS No.: 9003-56-9	Poly(gom/onitrile on hutadiana on atuurus)	2%
EC No.: 618-371-8	Poly(acrylonitrile-co-butadiene-co-styrene)	270

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General advice: Ensure good ventilation, if feel unwell, get medical advice/attention. After inhalation: Supply with fresh air. Call for doctor/physician if you feel unwell.

After skin contact: Wash skin with water and soap. If skin irritation happens: Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. Get medical advice/attention if irritation persists.

After swallowing: Rinse out mouth with water. If feel unwell, get medical advice/attention.

- 4.2 Most important symptoms and effects, both acute and delayed: There are not any known symptoms and effects normally.
- 4.3 Indication of any immediate medical attention and special treatment needed: Treat according to symptom, there is not known specific medicine.

SECTION 5: Fire-fighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use chemical dry powder, sand, foam, CO2 to extinguish.
- 5.2 Special hazards arising from the substance or mixture: May produce organic monomer and metal dust under fire.
- · 5.3 Advice for firefighters

Protective equipment: Wear fully protective suit and mouth respiratory protective device if necessary.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source and collect spillage timely; Ensure adequate ventilation; Use respiratory protective device against the effects of dust; Avoid breathing dust.

· 6.2 Environmental precautions:

Do not allow large quantities of the product to enter sewers/surface or ground water; Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically; Ensure good ventilation; Dispose contaminated material as waste according to item 13.

· 6.4 Reference to other sections:

See section 7 for information on safe handing; See section 8 for information on personal protection equipment; See section 13 for disposal in formation.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling:

Ensure adequate ventilation; Use respiratory protective device against the effects of dust; Avoid breathing dust; Avoid contact with eyes.

- · Information about fire and explosion protection: Normal measures for preventive fire protection.
- · 7.2 Conditions for safe storage, including any non-compatibility
- Requirements to be met by storerooms and receptacles: Store in a dry and well-ventilated place.
- · Information about storage in one common storage facility: Keep away from acid
- · Further information about storage conditions: Keep in cool condition.
- · 7.3 Specific end use(s): Iron fillings.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

ngreuens wan ama values that require mondoring at the workplace.		
Country	Limit value - Eight hours	Limit value - Short term
1309-37-1 Diiron i	trioxide (as Fe) (98%)	
Austria 5 mg/m³ respirable aeroso		10 mg/m³ respirable aerosol
Belgium	2ppm;5 mg/m ³	-
Denmark	3.5 mg/m^3	7 mg/m^3
Finland	5 mg/m³calculated as Fe; fume	-
Hungary	6 mg/m³respirable aerosol	-
Ireland	5 mg/m^3	10 mg/m ³ 15 minutes reference period
Poland	5 mg/m^3	10 mg/m^3
Spain	5 mg/m ³	-
Sweden	3.5 mg/m^3	-
United Kingdom	5 mg/m^3	10 mg/m^3

· DNELs:

DNEL type 1309-37-1 Diiron trioxide		DNEL worker value	DNEL consumer value
Local effects	Long-term, inhalation exposure	10 mg/m^3	-

- · PNECs: Data not available
- · Additional information: The lists valid during the marking were used as basis.
- · 8.2 Exposure controls
- · Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.
- · Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; See section 7 for information about design of technical facilities.

- · Personal protective equipment
- · Respiration protection: Dust mask is recommended.
- · Protection of hands: Work protective gloves are recommended.
- · Eye protection: Safety goggles are recommended.
- · Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

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SECTION 9: Physical and chemical properties				
· 9.1 Information on basic physical and chemical properties				
· Appearance:				
Form	Powder			
Color	Black			
Odor	Odorless			
Odor threshold	Not applicable			
· pH-value	Not determined			
· Change in condition				
Melting point/melting range	Not determined			
Boiling point and boiling range	Not determined			
· Freezing point	Not determined			
· Flash point	Not applicable			
· Flammability (solid, gaseous)	Not flammable solid			
· Decomposition temperature	Not determined			
· Self-ignition	Product is not self-igniting.			
· Danger of explosion	Product does not present an explosion hazard.			
· Explosion limits				
Lower:	Not explosive			
Upper:	Not explosive			
· Oxidizing properties	No oxidation			
· Vapor pressure	Not determined			
· Density	Not determined			
· Relative density	Not determined			
· Vapor density	Not determined			
· Evaporation rate	Not determined			
· Solubility in/Miscibility with				
Water	Insoluble in water.			
· Partition coefficient (n-octanol/water)	Not determined			
· Viscosity				
Dynamic	Not determined			
Kinematic	Not determined			
· 9.2 Other information	Data not available			

SECTION 10: Stability and reactivity

- \cdot 10.1 Reactivity: No decomposition if used according to specification.
- $\cdot \textbf{10.2 Chemical stability:} \ \textit{Stable under recommended storage conditions.}$
- 10.3 Possibility of hazardous reactions: No further relevant information available.
- \cdot 10.4 Conditions to avoid: High temperature.
- · 10.5 Incompatible materials: Acid and strong oxidizing agent.
- · 10.6 Hazardous decomposition products: No further relevant information available.

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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification: No animal test has been done for this product.
- · Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- · Serious eyes damage/irritation: Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Not hazardous to the aquatic environment.

1309-37-1 Diiron trioxide		
Short-term toxicity to aquatic invertebrates		EC50 (48 h) 100 mg/L
	Toxicity to microorganisms	EC50 (3 h) 10 g/L

- · 12.2 Persistence and degradability: Readily degradable.
- · 12.3 Bio-accumulative potential: Low bio-accumulation.
- · 12.4 Mobility in soil: Data not available.
- · 12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

- · 12.6 Other adverse effects: No further relevant information available.
- · 12.7 Additional ecological information
- · General notes: Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13:Disposal consideration

- · 13.1 Waste treatment methods
- · Recommendation:

Small quantities can be disposed together with household garbage; Large quantities disposed must be in according to the local regulation.

- · 13.2 Un-cleaned packaging
- Recommendation: Dispose of contents/container in according to the local regulation.

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SECTION 14: Transport inform	ation
· 14.1 UN-Number	
ADR, IMDG, IATA	Not regulated as dangerous transport goods, not applicable
· 14.2 UN proper shipping name	
ADR, IMDG, IATA	Not applicable
· 14.3 Transport hazard class (es)	
ADR, IMDG, IATA	
Class	Not applicable
Label	Not applicable
· 14.4 Packing group	
ADR, IMDG, IATA	Not applicable
· 14.5 Marine pollution	No
· 14.6 Special precautions for user	Not applicable
· 14.7 UN "Model Regulation"	-

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · MAK (German Maximum Workplace Concentration): None of the ingredients is listed.
- · Directive 2012/18/EU
- · Named dangerous substances-ANNEX I: None of the ingredients is listed.
- · National regulations.
- · Water hazard class: Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
- · Other regulations, limitations and prohibitive regulations
- · SVHC Candidate list of REACH Regulation Annex XIV Authorization: None of the ingredients is listed.
- · REACH Regulation Annex XVII Restriction: None of the ingredients is listed.
- · REACH Regulation Annex XIV Authorization List: None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

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IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

End of safety data sheet

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SAMPLE REFERENCE PHOTO:

