GHS Safety Data Sheet

SDS No.:NIF03PAEG Date Issued:2018/09/25

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: NiFe₂O₄ Nickel-iron oxide

Product number:	Purity	Form	Size (mm)
NIF01PB	99.9%(3N)	powder	
NIF09PB	99.5%(2N5)	powder	
NIF10GB	2N5	lumps	
NI022_NIFR3007	3N	tablet/ target	φ 10×t5
NI022_NIFR3012	3N	tablet/ target	φ 20×t5
NI022_NIFT3034	3N	tablet/ target	φ 101.6×t5
NI022_NIFT3035	3N	tablet/ target	ϕ 152.4 \times t5
_	3N	tablet/ target	φ 25.4×t4.76, Various sizes

1.2 Company Information:

Manufacturer: Kojundo Chemical Laboratory Co., Ltd.

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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards	
Respiratory sensitization: Category 1 Skin sensitization: Category 1 Carcinogenicity: Category 1	No data available	Flammable solids: 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	

GHS Label: C



Pictograms or symbols

Warning word: DANGER		
Hazard information	Description of precaution	
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer.	Obtain special instructions. Read and understand all safety precautions before handling. Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.	

Call a POISON CENTER or doctor/physician if you feel unwell.
Store locked up.
Dispose of contents/ container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Chemical or common name: Diiron nickel tetraoxide Nickel ferrite

Chemical formula: NiFe₂O₄

Single Substance or Compound: Single substance

 Composition:
 100%

 CAS #:
 12168-54-6

 RTECS#:
 Not listed

 TSCA:
 Not listed

 EINECS:
 2353353

Section 4. First aid measures

Eye contact: Promptly rinse eyes with plenty of water while lifting the eye lids. Continue to

rinse for at least 15 minutes and get medical attention.

Skin contact: Remove immediately all contaminated clothing. Wipe off the product immediately

by tissue or soft cloth, etc. Promptly flush contaminated skin with soap or mild

detergent and water. Contact physician if irritation continues.

Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

Inhalation: Remove the exposed person immediately and provide fresh air.

Get medical attention.

Section 5. Fire fighting measures

Extinguishing media: The product is not combustible. Use media appropriate for surrounding fire.

Fire fighting: Remove containers to safe place if possible.

Self-contained breathing apparatus and full protective clothing should be

used, if this product is involved in fire.

Section 6. Accidental release measures

Personal Workers should use protective wears to prevent contact with the spilt adhesive

Precaution: and inhalation of its dust.

Environmental Shut off leak if without risk.

hazard precaution: Prevent flow out to river, etc. so as not to badly affect.

Methods for Avoid unnecessary contacts with spills.

containment and Indoor leakage: Ventilate as much as possible until the cleaning is completed. Cleaning up: Outdoor leakage: Work from the windward and evacuate the leeward crowd.

Gather up, pack in closed DOT-approved waste container as much as possible.

Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin

contact is foreseen.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.

Store in a cool, dry, well ventilated and dark place away from incompatible

materials.

Section 8. Exposure controls / personal protection

Exposure guideline:

a	ACGIH(2013) TLV-TWA	OSHA(2006) PEL-TWA	
Chemical Name	mg/m³	mg/m ³	
Nickel insoluble compounds, as Ni	0.2 (I)	1	

I; Inhalable particles

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent

inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles,

impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Appearance: Purple-black, solid

Formula: NiFe₂O₄
Formula weight: 234.4

Melting Point: No data available
Boiling Point: No data available
Density: No data available

Solubility/H₂O: Insoluble

Flammable: Non-combustible

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container at room temperature.

Reactivity Incompatibility: No data available

Section 11. Toxicological information

Acute toxicity: GHS: No data available
Skin corrosive / irritation: GHS: No data available
Serious eye damage / irritation: GHS: No data available

Respiratory sensitization: GHS; Category 1;May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin sensitization: GHS: Category 1; May cause an allergic skin reaction.

Germ cell mutagenicity: GHS: Not classified.; Falls below the lowest level.

Carcinogenicity: GHS: Category 1; May cause cancer.

	ACGIH	IARC	NTP
Chemical Name	(2013)	(2017)	(2016)
Nickel compounds	A1	1	K

ACGIH A1 Confirmed human carcinogen.
IARC 1 Carcinogenic to humans.
NTP K Known to be human carcinogens.

Reproductive toxicity: GHS: No data available

Specific target organ toxicity

-single exposure: GHS: No data available

Specific target organ toxicity

-repeated exposure: GHS: No data available Aspiration hazard: GHS: No data available

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic evironment

-acute toxicity: GHS: No data available

Hazards to the aquatic environment

-chronic toxicity: GHS: No data available

Hazardous to the ozone layer: GHS: No data available

Fish toxicity:

Degradability:

No data available

Bioaccumulative potential:

Mobility in soil:

No data available

No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed

'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification: Non-hazards

UN number: None
HS code: 2841.90
Marine pollution: None

Precautions Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory: Not listed

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.