

Safety Data Sheet(SDS)

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Date : Mar,19,2025
No:25-005

1 PRODUCT AND COMPANY IDENTIFICATION

1-1 PRODUCT NAME

Name	Electrodeposited Copper Foil
Grade	SEED

1-2 Manufacturer

Name	Nippon Den kai, Ltd.
Address	1226 Shimoezure, Chikusei, Ibaraki, 308-0851Japan
Responsible Division	Quality Assurance Department
Phone	81-296-28-5551

2 HAZARDS IDENTIFICATION

GHS classification: Copper

Physical and Chemical Hazards

Explosives	Uncategorized
Flammable gases	Uncategorized
Flammable aerosol	Uncategorized
Oxidizing gas	Uncategorized
High-pressure gas	Uncategorized
Flammable liquids	Uncategorized
Flammable solids	Can't categorize
Self-reactive substances and mixtures	Uncategorized
Spontaneously combustible liquids	Uncategorized
Spontaneously combustible individuals	Can't categorize
Natural pyrogens and mixtures	Can't categorize
Water-reactive flammable chemicals	Can't categorize
Oxidizing liquids	Uncategorized
Oxidizing solids	Uncategorized
Organic peroxide	Uncategorized
Metallic corrosive substances	Can't categorize

Health Hazards

Acute toxicity (oral)	Uncategorized
Acute toxicity (transdermal)	Uncategorized
Acute toxicity (inhalation: gas)	Uncategorized
Acute toxicity (inhalation: vapor)	Uncategorized
Acute toxicity (inhalation: dust)	Uncategorized
Acute toxicity (inhalation: mist)	Uncategorized
Acute toxicity (inhalation: vapor)	Uncategorized
Acute toxicity (inhalation: dust)	Uncategorized
Acute toxicity (inhalation: mist)	Uncategorized

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Skin corrosive/irritating	Uncategorized
Serious damage to the eyes/eye irritation	Uncategorized
Respiratory sensitization	Uncategorized
Skin sensitization	Uncategorized
Germline mutagenicity	Uncategorized
Carcinogenicity	Uncategorized
Reproductive toxicity	Uncategorized
Specific target organ and systemic toxicity (single exposure) : Category 3	

GHS symbols



Specific target organ and systemic toxicity (repeated exposure) : Category 1	
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GHS symbols



Mistaken harm	Mistaken harmfulness	Uncategorized
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Environmental Hazards

Water positive environmental hazards short-term (acute)	Uncategorized	
Water Positive Environmental Hazards Long-term (Chronic)	Category 4	Not symbol

3 COMPOSITION AND INFORMATION ON INGRDIENTS

Mixture / Substance	Mixture(Multi-Layered Complex)
Chemical Name (Main component)	Cooper
Content	≥99.9%
Symbol of Element	Cu
CAS No	7440-50-8

4 FIRST AID MEASURES

Since there is no provision as an alloy, the provisions for copper, which are subject to the Safety and Health Law among the constituent elements, are described.
(Not subject to the Chemical Substances Control Law.)

Inhaled	– (Sheet-like solid at RT, never inhale)
On Skin	Get medical attention for cuts
In Eyes	Get medical attention
Swallowed	Get medical attention
Expected acute symptoms and	No Date
Lazy information	
The most important signs and symptoms	No Date

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5 Fire Fighting Measures

Suitable Extinguishing Media	Special powder fire extinguishing agent Dry sand
Unsuitable Extinguishing Media	None
Special Fire Fighting Measures	Usual Fire Extinguishing Method
Special Protective Equipment and Precautions	Usual Protective Wear

6 Measures to be taken at the time of leakage

Precautions for the human body	Workers should wear appropriate protective equipment and avoid contact with eyes and skin.Avoid.
Precautions for the environment	To prevent emissions from being discharged into rivers, etc. and affecting the environment Admonish.
Containment and purification methods	If it is not dangerous, stop the leak.
Measures against collateral damage	Promptly remove all sources of ignition and flammable substances.

7 Precautions for handling and storage

PRECAUTIONS FOR SAFE HANDLING

Technical Measures	Wear protective equipment.
Local exhaust and overall ventilation	Unnecessary.
Contact avoidance	10. See Safety and reactivity.
Hygiene measures	Wear long sleeves, protective gloves.

Safekeeping

Technical Measures	No special notes.
Substances prohibited from mixing	10. See Safety and reactivity.
Containers and packaging materials	No special notes.

8 Exposure Prevention and Protection Measures

Permissible concentration

Japan Society of Industrial Hygiene	Not set
ACGIH	TLV-TWA 0.2mg/m3 (as Hume)□ TLV-TWA

Facility Measures

respiratory organ	Unnecessary.
hand	Wear protective gloves.
eye	Protective Glasses
Skin & Body	Wear protective equipment such as protective clothing and safety shoes

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9 Physical and chemical properties

Physical state	Solid
shape	Depends on product shape
color	Red metallic luster
stinking	Without
pH	Unmeasurable
Melting point and freezing point	1083°C
boiling point	2595°C
Flash Point	Unmeasurable
Flash point	Unmeasurable
Explosion characteristics	Without
specific gravity	8.93

10 Safety and reactivity

Safety	Acetylene compounds, ethylene oxide and The mixture with azide is sensitive to impact. Strong acids such as chlorates, bromate, and iodate Reacts with chemicals.
Hazard and Adverse Reactivity Potential	Oxidizers (chlorates, bromate, iodate, etc.) and react.
Hazardous materials	Acetylene compounds, ethylene oxides, azides Oxidizers (chlorates, bromate, iodate, etc.)

11 Hazard Information

Acute toxicity	No data/lack of data
Skin corrosive/irritating	Causes symptoms of redness when in contact with the skin
Serious damage to the eye /eye irritation	When it enters the eye, it becomes red. Causes symptoms of pain.
Respiratory sensitization	No data available
Skin sensitization	GHS Category 1A
Germline mutagenicity	No data available
Carcinogenicity	Out of Partition (EPA Group D)

12 Environmental Impact Information

Persistence and degradability	No information available
Bioaccumulation	No information available
Mobility in soil	No information available

13 Precautions for disposal

Residual waste	In accordance with relevant laws and regulations and local government standards Dispose of it properly.
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Contaminated containers and
packaging

No contaminated containers and packaging
are generated.

14 Transport precautions

International Regulations

Maritime Regulation Information

Non-dangerous goods

Aviation Regulation Information

Non-dangerous goods

Domestic Regulations

Land Regulation Information

Non-dangerous goods

Maritime Regulation Information

Non-dangerous goods

Aviation Regulation Information

Non-dangerous goods

15 Applicable Laws and Regulations

Industrial Safety and
Health Act

Hazardous substances whose names should be notified
Article 57-2 of the Law, Article 18-2 Appended Table 9□
of the Enforcement OrderCabinet Order No. 379

16 Other information

No other information is available.

The Material Safety Data Sheet complies with the requirements of JIS Z 7253:2019 (Japan). This information may be revised due to new findings and tests. It is provided to business operators as reference information to ensure safe handling. Businesses that handle personal information are requested to use it with the understanding that it is necessary to take appropriate measures according to the actual situation by referring to it. This data sheet itself is not a guarantee of safety.