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Safety Data Sheet(SDS)

Date : Mar,19,2025 No:25-006

1 PRODUCT AND COMPANY IDENTIFICATION

1-1 PRODUCT NAME

Name	Electrodeposited Copper Foil
Grade	HL

1-2 Manufacturer

Name	Nippon Denkai, 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

Uncategorized
Uncategorized

Specific target organ and systemic toxicity (single exposure)

: Category 3



Specific target organ and systemic toxicity (repeated exposure)

: Category 1



Mistaken harmi Mistaken harmfulness Uncated	gorized
Environmental Hazards	
Water positive environmental hazards short-term (acute)	Uncategorized
Water Positive Environmental Hazards Long-term (Chronic	c) 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 symptom	s No Date

5 Fire Fighting Measures	
Suiteable Extingishing Media	Special powder fire extinguishing agent Dry sand
Unsuitable Extinguishing Media	None
Special Fire Fighting Measures	Usual Fire Extinguishing Method
Special Protective Equipment and Pr	recautions Usual Protective Wear
6 Measures to be taken at the time of leak	xage
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 metho	ds 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	wear long sieeves, protective gloves.
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 Mea	sures
Permissible concentration	Net set
Japan Society of Industrial Hygiene	Not set
ACGIH	TLV-TWA 0.2mg/m3 (as Hume)
Facility Moacures	TLV-TWA
Facility Measures	Unnecessary
respiratory organ	Unnecessary. Wear protective gloves.
hand	Protective Glasses
eye Skin & Body	Wear protective equipment such as protective
Skiri & Body	clothing and safety shoes
	Godining and Surecy Shoes

9 Physical and chem	ical properties
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Physical state	Solid
shape	Depends on product shape
color	Red metallic luster
stinking	Without
рН	Unmeasurable
Melting point and freezing point	1083℃
boiling point	2595℃
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	Oxidizers (chlorates, bromate, iodate, etc.)	
Potential	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	When it enters the eye, it becomes red. Causes	
/eye irritation	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.

Contaminated containers and		No contaminated containers and packaging	
packaging		are generated.	
14 Transport precautions			
International Regulations			
Maritime Regulation In	formation	Non-dangerous goods	
Aviation Regulation Inf	ormation	Non-dangerous goods	
Domestic Regulations			
Land Regulation Inform	nation	Non-dangerous goods	
Maritime Regulation In	formation	Non-dangerous goods	
Aviation Regulation Inf		Non-dangerous goods	
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15 Applicable Laws and Regula	ations		
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Industrial Safety and	Hazar	dous substances whose names should be notified	
		57-2 of the Law, Article 18-2 Appended Table 9	
Health Act		Enforcement OrderCabinet Order No. 379	
	or trie	Enforcement Order Cabinet Order No. 379	
16 Other information			
16 Other information No other information is			

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.