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Version 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

- (a) Product name
Product identifier Copper adhesive tape
P391
- (b) Other means of identification
Product Code P627-00002
- (c) Recommended Use Conductive tape ; for EMI and RFI shielding; shield enhancement on woven braid shielding cable; die cutting.
- (d) Supplier Address Nitto, Inc.
1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.
TEL.+1-732-901-7905 FAX.+1-732-901-9354
- Emergency telephone number +1-732-901-7905 (Nitto, Inc.)

2. Hazards Identification

- (a) GHS - Classification Not applicable for article
- (b) Label elements Not Applicable
- Physical state Solid
- Odor Slight
- Precautionary statements
- Skin contact IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
- (c) Other Hazards Very toxic to aquatic life with long lasting effects Very toxic to aquatic life
- (d) Numerical measures of toxicity
(such as acute toxicity estimates) 99.70% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Product Classification ARTICLE

<u>Chemical name</u>	<u>CAS No</u>	<u>Concentration or concentration ranges</u>
Copper	7440-50-8	80-90
Acrylic polymer	-	10-20
Nickel	7440-02-0	<1
Release liner	-	-

The exact percentage (concentration) of composition has been withheld as a trade secret

4. First aid measures

- (a) General information
- Inhalation Will not occur
- Eye contact Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
- Skin contact Wash off immediately with soap and plenty of water
In the case of skin irritation or allergic reactions see a physician
- Ingestion Immediately induce vomiting and then consult a doctor
- (b) Most important symptoms/effects, acute and delayed: No information available
- (c) Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
- Note to physicians No information available

5. Fire-fighting measures

- (a) Fire extinguishing agent Dry chemical, CO2, water spray or regular foam
Prohibited media No information available
- (b) Special exposure hazards in a fire No information available
Hazardous combustion products No information available
Explosion data No information available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available
- (c) Special protective equipment and precautions for firefighters In the event of fire, wear self-contained breathing apparatus
 Use personal protective equipment as required

6. Accidental release measures

- (a) Personal Precautions Use personal protective equipment as required
Protective equipment and emergency procedures Protective gloves and safety glasses recommended
- (b) Environmental precautions Prevent product from entering drains
 Keep out of waterways
 Dike to collect large liquid spills
 Collect spillage
- (c) Methods and material for containment and cleaning up

7. Handling and Storage

- (a) Precautions for safe handling Protective gloves and safety glasses recommended
 (b) Storage conditions Store at room temperature and normal humidity away from direct sunlight

8. Exposure Controls/Personal Protection

- (a) Control parameters None under normal use conditions
Other information No information available
- (b) Appropriate engineering controls Ensure adequate ventilation, especially in confined areas
- (c) Personal protective equipment [PPE]
- Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
- Hand protection Wear non-permeable gloves
- Skin protection Wear protective gloves and protective clothing

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- (a) Physical state Solid
 (b) Color copper
 (c) Odor Slight
 (d) pH Not Applicable
 (e) Melting point / Freezing point No information available
 (f) Boiling point / boiling range No information available
boiling point No information available
 (g) Flash Point No data available
 (h) Evaporation rate No data available
 (i) Flammability (solid, gas) No data available
 (j) Upper/lower flammability or explosive limits
- Upper No data available
Lower No data available
- (k) vapor pressure No information available
 (l) Vapor density No data available
 (m) Specific gravity No information available
 (n) Solubility No information available

- (o) Partition Coefficient (n-octanol/water) No information available
- (p) Autoignition temperature No information available
- (q) decomposition temperature No data available
- (r) Kinematic viscosity No data available
- (s) molecular weight No data available
- 9.2 Other information
- Bulk Density No information available

10. Stability and Reactivity

- (a) Reactivity Stable under normal conditions
- (b) Chemical stability Stable under normal conditions
- (c) Possibility of hazardous reactions No data available
- (d) Conditions to avoid No information available
- (e) Incompatible materials No information available
- (f) Hazardous decomposition products: None under normal use conditions

11. Toxicological Information

- (a) Information on likely routes of exposure
- Inhalation No information available
- Ingestion Not Applicable
- Skin contact No information available
- Eye contact No information available
- (b) Most important symptoms/effects, acute and delayed: No information available
- (c) Delayed and immediate effects and also chronic effects from short- and long-term exposure
- Acute Toxicity No information available
- Germ cell mutagenicity No data available on finished product
- Reproductive Toxicity No data available on finished product
- Target organ effects No data available
- Specification target internal organs/systemic toxicity (single exposure) No data available on finished product
- Specification target internal organs/systemic toxicity (repeat exposure) No data available on finished product
- Aspiration hazard Not Applicable
- (d) Unknown Acute Toxicity 99.70% of the mixture consists of ingredient(s) of unknown toxicity
- (e) Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

<u>Chemical name</u>	<u>ACGIH (American Conference of Governmental Industrial Hygienists):</u>	<u>International Agency for Research on Cancer (IARC)</u>	<u>NTP (National Toxicology Program):</u>	<u>OSHA (Occupational Safety and Health Administration of the US Department of Labor):</u>
Nickel 7440-02-0	-	Group 2B	Reasonably Anticipated	X

International Agency for Research on Cancer (IARC) Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program): Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor): X - Present

12. Ecological Information

- (a) Ecotoxicity No data available on finished product
- (b) Mobility in soil No data available on finished product
- (c) Persistence and degradability No data available on finished product
- (d) Bioaccumulation No data available on finished product

(e) Other adverse effects

Ozone depletion potential (ODP): Stable under normal conditions

13. Disposal Considerations

Waste treatment methods

Disposal of wastes

Dispose of in accordance with federal, state and local regulations. The Customer is responsible for the proper disposal of any waste generated as a result of the use of the Product or of the Product itself, and is responsible for complying with all applicable laws, rules and regulations relating to the management, storage, treatment, shipment and disposal of such waste or Product ("Waste Management Practices"). "Product" includes anything sold by Nitto Denko Corporation and/or any affiliates or subsidiaries ("Company") to Customer. The Company is not responsible for any of the Customer's Waste Management Practices. As part of those practices, Customer must separate packaging from Product before disposal. Further, Customer should review and comply with this SDS prior to any such disposal. Customer shall hold harmless the Company, its agents, contractors, successors and assigns from any and all liability, claims, loss, damage, death or injury, including reasonable attorneys fees and costs, arising out of or relating to Customer's Waste Management Practices

Contaminated packaging

Disposal considerations

See Disposal of Wastes
Should not be released into the environment

14. Transport Information

DOT(U.S. Department of Transportation) Not regulated

(HMTA)

UN number Not Applicable

UN Proper Shipping Name Not regulated

Transport hazard class Not Applicable

Environmental hazards This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

(Applicable/not applicable)

Special precautions in connection with transport or conveyance Store in a cool area away from heat

TDG: Not regulated

MEX(Transport is specifically for Mexico) Not regulated

ICAO (air) Not regulated

IATA: Not regulated

IMDG Not regulated

UN number Not Applicable

UN Proper Shipping Name Not regulated

Transport hazard class Not Applicable

Special precautions in connection with transport or conveyance Store in a cool area away from heat

RID (Regulations concerning the International Carriage of Dangerous Goods by Rail) Not regulated

ADR : (European Agreement concerning International Carriage of Dangerous Goods by Road) Not regulated

ADR : (European Agreement concerning International Carriage of Dangerous Goods by Road) Not regulated

ADN Technical Name Not regulated

15. Regulatory information

US Federal Regulations

CWA (Clean Water Act):

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>Chemical name</u>	<u>CWA - Reportable Quantities</u>	<u>CWA - Toxic Pollutants</u>	<u>CWA - Priority Pollutants</u>	<u>CWA - Hazardous Substances</u>
Copper 7440-50-8	-	X	X	-
Nickel 7440-02-0	-	X	X	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<u>Chemical name</u>	<u>Hazardous Substances RQs</u>	<u>CERCLA/SARA RQ</u>	<u>Reportable Quantity (RQ)</u>
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Nickel 7440-02-0	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

<u>Chemical name</u>	<u>California Proposition 65</u>
Nickel 7440-02-0	Carcinogen WARNING: This product contains a chemical known to the state of California to cause cancer.

The following statement is provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (CALIFORNIA PROPOSITION 65): WARNING: This product contains a chemical known to the state of California to cause cancer.

THIS PRODUCT CONTAINS A CHEMICAL THAT HAS BEEN LISTED PURSUANT TO PROPOSITION 65, CALIFORNIA HEALTH & SAFETY CODE SECTION 25249.8. EMPLOYERS MAY HAVE OBLIGATION TO WARN THEIR EMPLOYEES AND OTHER ON THEIR PREMISES OF POTENTIAL EXPOSURE TO PROPOSITION 65 LISTED SUBSTANCES. IF THIS PRODUCT IS SOLD OR USED IN OR INCORPORATED INTO A PRODUCT SOLD IN CALIFORNIA, CALIFORNIA LAW MAY REQUIRE THAT THE MANUFACTURER, DISTRIBUTOR AND RETAILER OF THE PRODUCT PROVIDE A WARNING PURSUANT TO PROPOSITION 65, CALIFORNIA HEALTH & SAFETY CODE SECTION 25249.6. FAILURE TO PROVIDE REQUIRED WARNING MAY RESULT IN LEGAL LIABILITY. THIS PRODUCT MAY NOT BE DISCHARGED ONTO LAND OR INTO ANY SOURCE OF DRINKING WATER IN CALIFORNIA.

This product will not contain compounds in particulate (respirable) form under normal conditions

U.S. State Right-to-Know Regulations

Not applicable.

REACH 7 Article 33 Article SVHC notification (> 0.1wt%)

None based on the current SVHC listing, as of the date of this SDS.

16. Other information

<u>NFPA</u>	<u>Health Hazards</u> 0	<u>Flammability</u> 0	<u>Instability:</u> 0	<u>Physical and Chemical Properties</u> -
<u>HMIS</u>	<u>Health Hazards</u> 0	<u>Flammability</u> 0	<u>Physical Hazards</u> 0	<u>Personal protective equipment</u> X

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Source Information

Raw material SDS

LOLI(Chem ADVISOR) GHS classification data

Disclaimer

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End of Safety Data Sheet