

Safety Data Sheet

Issue date 26-Aug-2014

Date prepared 08-Sep-2016

Version 3

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

Product name	ELEP MOUNT
Product identifier	EM-430J1-P(Prototype)
Product Code	T020-00223
Supplier Address	Nitto Denko Corporation Toyohashi Plant 18, Hirayama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan TEL.+81-532-41-7242, FAX. +81-532-41-7284
Department responsible	Development Div.
Emergency telephone number	+81-532-41-1121(Nitto Denko Corporation Toyohashi Plant)
Recommended Use	For the dicing and die attach process of Si wafer
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2. Hazards Identification

GHS Classification Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

3. Composition/information on Ingredients

Single Substance or Mixture Article		
Chemical name	CAS No	Concentration or concentration ranges
Synthetic rubber (Die attach film)	-	10-20
Silica, amorphous(Die attach film)	7631-86-9	20-30
Phenol resin (Die attach film)	-	25-35
Epoxy resin (Die attach film)	-	30-40
Acrylic resin (Dicing tape)	-	25-35
Polypropylene copolymer (Dicing tape)	-	50-60
Polyethylene copolymer (Dicing tape)	-	10-15
Polyethylene Terephthalate (Release liner)	25038-59-9	-

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

4. First aid measures

Inhalation	In case of falling sick due to inhalation of fume or mist generated by excessively heated products, move to the other place to get a fresh air and obtain doctor's diagnosis
<u>Skin contact</u> Eye contact	Wipe immediately and clean with sudsy water Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary
Ingestion Most important symptoms/effects, acute and delayed:	Give plenty of water and induce vomiting. Seek medical attention None in particular
Self-protection of the first aider Note to physicians	None in particular None in particular

5. Fire-fighting measures

Prohibited media D Special exposure hazards in a fire Fi Specific extinguishing methods E Advice for fire-fighters D	CO2 (except for Cyanides), dry chemical, dry sand, alcohol-resistant foam Do not use a solid water stream as it may scatter and spread fire Fire may produce dense black smoke Extinguish fire toward the leeward after removing the cause of fire Due to poisonous gas (chlorine gas and so on) may be occurred, if needed, use Gas mask and Goggles
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6. Accidental release measures

Will not occur. Not specified Will not occur. Not specified
Will not occur. Not specified Will not occur. Not specified

and cleaning up

7. Handling and Storage

Handling_	
Technical measures:	None in particular
Local and general exhaust	Not required for use in normal temperature
ventilation	Provide adequate ventilation when performing high-temperature processing
Precautions for safe handling	Avoid contact with strong alkali and strong acid
<u>Remarks</u>	Ensure adequate ventilation
	Use caution and protective gloves to avoid cuts with edges of tape liners
Storage	
Technical measures:	Ensure no leak from container
Storage conditions	Keep under 5 °C in closed containers and away from direct sunlight
Storage conditions to avoid	Avoid high temperature
Incompatible materials	Avoid contact with strong alkali and strong acid

Store in a closed container

8. Exposure Controls/Personal Protection

Control parameters Permissible concentration Appropriate engineering controls

Conditions for safe storage,

including any incompatibilities

Unset Local and general exhaust ventilation

Personal protective equipment [PPE]

tective masks with activated charcoal filter
tective gloves
ety glasses with side shields (or goggles)
g sleeve work shirt
,

film

Unset

General hygiene considerations

No information available

9. Physical and Chemical Properties

Physical state <u>Color</u> Odor pН Melting point / Freezing point boiling point Boiling point / boiling range Flash Point Autoignition temperature Upper Lower vapor pressure Vapor density Specific gravity Solubility Partition Coefficient (n-octanol/water) decomposition temperature

white Slight Not Applicable 30-60 °C Not Applicable Not Applicable above 200 °C above 200 °C No data available No data available Not Applicable Not Applicable No data available Not miscible in water, miscible in Ketone No data available above 200 °C

10. Stability and Reactivity

Reactivity	Stable below 5 °C, Shelf life : according to our specification
Possibility of hazardous reactions	May react vigorously with strong acid, strong alkali, and oxidizing agent on contact, and generate
	toxic gas
Conditions to avoid	High temperature and humidity
Incompatible materials	Avoid contact with strong alkali and strong acid
Hazardous decomposition products:	Organic gasses such as carbon monoxide and carbon dioxide, and vapours
	Nitrogen oxides (NOx)

11. Toxicological Information

Acute Toxicity Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitization Germ cell mutagenicity Carcinogenicity No information available No information available

Reproductive Toxicity Specification target internal organs/systemic toxicity (single	No information available No information available
exposure) Specification target internal organs/systemic toxicity (repeat exposure)	No information available
Aspiration hazard	No information available
	12. Ecological Information
Persistence and degradability Bioaccumulation Ozone depletion potential (ODP): Other adverse effects	No information available No information available No information available No information available
	13. Disposal Considerations
Waste treatment methods	Disposal should be in accordance with applicable regional, national and local laws and regulations When burning it, use an incinerator which satisfies its technical guidelines (the residence time is 2 seconds or more at a temperature of 800 °C centigrade or more). Contact an authorized industrial waste treatment company for off-site disposal
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations
	14. Transport Information
<u>National regulations</u> <u>Transport hazard class</u> <u>UN number</u>	Not Applicable Not Applicable
Japanese regulation	Not Applicable
Special precautions in connection with transport or conveyance	None in particular
	15. Regulatory information
Local regulation	Japanese regulation Fire Service Act : Designated flammable material (Synthetic resins : Other) Industrial Safety and Health Act: The Substances that their names shall be notified
Foreign regulation	Contact NITTO for more information
REACH 7 Article 33 Article SVHC notification (> 0.1wt%)	Not Applicable

16. Other information

Issue date	26-Aug-2014
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Other information	The regulatory information presented here should not necessarily be considered as
	all-inclusive.Other local and international regulations may also apply
Key literature references and sources	JIS Z 7252 : 2009 Classification of chemicals based on "Globally Harmonized System of
for data	Classification and Labelling of Chemicals (GHS)"
	JIS Z7253 : 2012 Safety data sheet for chemical products -Content and order of sections

Disclaimer Contents are based on documents, information and data which are available at this time, but nothing is guaranteed as regards content, physical and chemical properties, hazards Also precautions are subject to ordinary handling, so please take safety measures as usage in special cases

End of Safety Data Sheet