

SAFETY DATA SHEET

Issue Date : Oct.12, 2005

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : CP1220IS(Anisotropic conductive film)
Manufacturer : Dexerials Corporation
12-3 Satsuki-cho, Kanuma-city,
Tochigi-Pref. 322-8502 Japan
Phone(For information)
81-289-76-0499

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components (% Chemical component by WT.)

	<u>CAS#</u>	
Denatured Epoxy resins	Trade Secret	20~30 %
Phenoxy resin	Trade Secret	15~25 %
Bisphenol epoxy resin	Trade Secret	10~25 %
Amine base hardener	Trade Secret	10~20 %
Ni/Au plated plastic particles	Trade Secret	2~ 6 %

SECTION 3. HAZARDS SUMMARIZE

Emergency overview

In case heat adhesion of this product is carried out, there is a possibility that the remains solvent contained in a product may serve as fumes and gasses.

Don't inhale the fume and gases by using suitable ventilation system.

Direct contact may cause irritation to eyes and skin, and skin sensitization because the product contains bis-phenol type epoxy resin.

Nickel powder contained in a product is possibly carcinogenic to humans.

Potential health effects

Skin/Eyes contact

Direct contact to adhesive layer may cause irritation and skin sensitization.

Ingestion/Inhalation

Fumes and gasses with a possibility of generating at the time of heat adhesion stimulate the skin, an eye, and a throat.

Chronic effects/Carcinogenicity

None has known as product. It is known bis-phenol type epoxy resin is positive at the Mutagenicity test.

Nickel particles, which are fixed in adhesive layer, do not make any harm to human body.

(IARC has reported that nickel powder is possibly carcinogenic to humans.)

SECTION 4. FIRST AID MEASURES

Inhalation

When fumes and gasses are inhaled, it moves to the place of fresh air and strives for quiet. You should consult a doctor depending on your condition.

Eye contact

In case of contact with eyes, rinse immediately with plenty of water. If irritation persists, seek medical attention.

Skin contact

Flush with large amounts of water. Use soap if available. If irritation persists, seek medical attention.

Ingestion

As supplied, product is a solid material and would not in practice be ingested.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguish media

Water spray, Carbon dioxide, Dry chemical powder or Foam

Fire fighting instruction

Wear positive pressure, self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Evacuate area and fight fire from a safe distance.

Material will burn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

As supplied, product is a solid material and would not in practice be released

SECTION 7. HANDLING AND STORAGE

Handling

Don't contact directly to the adhesive face without wearing protective gloves.

When product is heated, handle it in a well-ventilated area not to inhale the vapor.

Storage

Store in a cool (below 5 °C), dry location away from strong acids and strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls

Suitable ventilating equipment should be installed at working area where product is heated and pressed.

Personal protection

Protective gloves: Wear appropriate gloves to prevent direct contact, because of irritation.

Protective glasses: Suitable safety glasses is recommended not to injure eyes by edges of the sheet.

Exposure guideline

No data as product

As Ni : ACGIH(2005) TLV-TWA 1.5mg/m³

WEL Long-term value 0.5mg/m³

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Form	:	Adhesive tape
	Color	:	Gray
	Odor	:	Odorless
Flash point		:	No data
Autoignition temperature		:	No data
Boiling point		:	Not applicable
Vapor pressure		:	Not applicable
Melting point		:	Not determined
Solubility in water		:	Insoluble in water
Specific gravity		:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability

Stable under normal handling conditions

Incompatibility

Strong acids and strong oxidizing agents

Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Nitrogen oxides

Hazardous polymerization

It will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

As product

Acute effects

No information as product.

Chronic effects

No information as product.

Toxicity data

No data as product.

As epoxy resins

Acute effects

Irritant, Skin sensitization

Chronic effects

Unknown

Target organ

Unknown

Toxicity data

ORL-RAT LD₅₀ > 2000 mg/Kg

SKN-RBT LD₅₀ > 2000 mg/Kg

As Ni

Acute effects

Unknown

Chronic effects

Unknown

Target organ

Unknown

Toxicity data

No data

Carcinogenicity information

IARC	JAPAN	ACGIH	EPA	NTP	EU
2B	2B	A5	Not listed	b	3

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information

Unknown

Chemical fate information

Unknown

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN NO. : Not listed
International classification : Not relevant

SECTION 15. REGULATORY INFORMATION

Export control law in Japan: Under control item of Catch-all regulation.

Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

SECTION 16. OTHER INFORMATION

Reference

SDS of each component issued by material makers

The information herein is the best of our knowledge and is only related to this specific product. No warranty, either expressed or implied, is made with respect to such information. The recommended handling procedures are believed to be generally applicable. However, it is user's responsibility to review these recommendations in the specific content of the intended use. We reserve the right to revise this SDS as new information become available. It is recommended to ask for the latest version to our sales division.

End of SDS