

## Safety data sheet

### 1. Chemical product and Company identification

**Product name:** **Adhesive**  
**Product number** **JU-110-3**  
**Manufacturer:** **KOKI COMPANY LIMITED**  
**Address:** **32-1,Senju Asahi-cho, Adachi-ku Tokyo 120-0026 Japan**  
**Telephone No.** **+81-3-5244-1521**  
**Emergency contact:** **KOKI COMPANY LIMITED**  
**Telephone No.** **+81-493-56-3409 (9:00am~5:30pm) (JST)**  
**General use** **Adhesive for chip-component mounting**

### 2. Hazards identification

#### GHS classification

#### Physical hazards

Explosives	Not applicable
Flammable Gases	Not applicable
Flammable Aerosols	Not applicable
Oxidizing Gases	Not applicable
Gases Under Pressure	Not applicable
Flammable Liquids	Not applicable
Flammable Solids	Not classified
Self-Reactive Substances and Mixtures	Not applicable
Pyrophoric Liquids	Not applicable
Pyrophoric Solids	Not classified
Self-Heating Substances and Mixtures	Not applicable
Substances and Mixtures which in contact with Water, emit Flammable Gases	Not applicable
Oxidizing Liquids	Not applicable
Oxidizing Solids	Not classified
Organic Peroxides	Not applicable
Corrosive to Metals	Not classified
Desensitized explosives	Not classified

#### Health hazards

Acute Toxicity – Oral	Classification not possible
Acute Toxicity – Dermal	Classification not possible
Acute Toxicity – Inhalation (Gases)	Classification not possible
Acute Toxicity – Inhalation (Vapors)	Classification not possible
Acute Toxicity – Inhalation (Dusts)	Classification not possible
Acute Toxicity – Inhalation (Mists)	Classification not possible
Skin Corrosion/Irritation	Classification not possible
Serious Eye Damage /Eye Irritation	Classification not possible
Respiratory Sensitisation	Classification not possible
Skin Sensitisation	Classification not possible
Germ Cell Mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive Toxicity	Classification not possible
Specific Target Organ Toxicity – Single Exposure	Classification not possible
Specific Target Organ Toxicity – Repeated Exposure:	Classification not possible
Aspiration Hazard	Classification not possible

#### Environment hazards

Aquatic Environment Acute Hazard	Classification not possible
Aquatic Environment Chronic Hazard	Classification not possible
Hazard to the ozone layer	Not classified

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### Label fragment

#### GHS pictograms

Not  
applicable

#### GHS signal word:

Void

#### Hazard statement

#### Precautionary statement prevention

#### Precautionary statement response

#### Precautionary statement storage

#### Precautionary statement disposal

Void: Can't be sure there is concern.

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### 3. Composition/Data on components

#### Substance or Mixture: Mixture

**Product description:** Mixture of epoxy resin, hardener and filler.

#### Chemical characterization:

Chemical name	Wt%	CAS Registry No.	EINECS No.
Bisphenol F type epoxy resin	55~60	9003-36-5	500-006-8
Butylphenylglycidylether	5~7	3101-60-8	221-453-2
Amine adduct with epoxy resin	17~21	Registered	Trade secret
Silica	4~6	Registered	Trade secret
Talc	10~12	Registered	Trade secret
Pigment red	<1	Registered	Trade secret

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### 4. First aid measure

#### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult a physician after significant exposure.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Consult a physician after significant exposure.

#### After eye contact:

Flush opened eyes with plenty of water for at least 15min. Then consult a doctor.

Remove contact lenses, if present and easy do. Continue rinsing

#### After ingestion:

If conscious, drink plenty of water. Call a physician immediately. Do not induce vomiting.

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### 5. Fire fighting measures

#### Extinguishing Media:

Alcohol-resistant foam, carbon dioxide gas and dry sand.

#### Special fire fighting procedure:

Use NIOSH approved SCBA & Full protective equipment (FP N).

#### Special hazards caused by the material, its products of combustion or resulting gases:

#### In case of fire, the following can be released:

Toxic metal oxide fume.

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### **Protective equipment:**

- Wear self-contained respirator.
  - Wear fully protective impervious suit.
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### **6. Accidental release measures**

#### **Person-related safety precautions:**

- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation.

#### **Measures for environmental protection:**

- Do not allow material to be released to the environment without proper governmental permits.

#### **Measures for cleaning/collecting:**

- Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.

#### **Additional information:**

- See Section 7 for information on safe handling
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.
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### **7. Handling and storage**

#### **Information for safe handling:**

- Open and handle container with care.
- Avoid contact with the skin and the eyes. Do not breathe vapors/dust.
- Wash hands before breaks and immediately after handling the product.
- Ensure good ventilation at the workplace.

#### **Storage**

- The container uses a thing without damage, corrosion, the breaking.
- The violent handling the container lets you fall down abusively and adds a shock or trails.
- If the product is putted in and out from a container, spilled.
- Take the ground in the container of the receipts and payments in the case static electricity may be generated by the flow.

#### **Further information about storage conditions**

- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed containers.
- Store under lock and key and with access restricted to technical experts or their assistants only.

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### 8. Exposure controls and personal protection

#### Components with limit values that require monitoring at the workplace:

Silica

	mg/m <sup>3</sup>
ACGIH	0.1
Australia	2
Austria	4 inhalable aerosol
Belgium	10
Canada Québec	6
Denmark	2 inhalable aerosol, 4 inhalable aerosol-STML
Germany	4 inhalable aerosol
Ireland	6(Inhalable fraction)
Latvia	1
New Zealand	1
Singapore	10
South Korea	10
Switzerland	4 inhalable aerosol
USA OSHA	80/% silica total dust
United Kingdom	2, 4 respirable aerosol
Talc	

	mg/m <sup>3</sup>
Australia	2.5
Austria	2 respirable aerosol
Belgium	2
Canada Québec	3
Denmark	0.3, 0.6 respirable aerosol
Hungary	2 respirable aerosol
Ireland	10(Inhalable fraction)
Latvia	4
New Zealand	2
Singapore	1
Spain	2 respirable aerosol
Sweden	1 respirable aerosol
Switzerland	2 respirable aerosol
The Netherlands	0.25 respirable aerosol
USA OSHA	20mppcf
Other component	Not required

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### 9. Physical and chemical properties

Form:	Paste
Color:	Red
Odor:	Slightly ammoniac
Change in condition	Value(unit)
Melting point(range):	Not determined
Boiling point(range):	Not determined
Flash point	Not determined
Ignition temperature:	Not determined
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Specific gravity:	1.25+/-0.1
Solubility in Miscibility with water	Insoluble

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### 10. Stability and reactivity

**Stability** Nearly stable.

**Conditions to be avoided:**

Stable under recommended storage conditions. Temperature above 60°C.

**Materials to be avoided:**

Oxidizing agents, acids, bases and amines

**Dangerous products of decomposition:**

Reaction with materials to be avoided will occur exothermic change and polymerization.

**Dangerous products of decomposition:**

Carbon monoxide and phenol.

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### 11. Toxicological information

**Acute Toxicity:**

Oral: "Classification not possible" :All components are "Classification not possible" or "Not classified"

Dermal: "Classification not possible" :All components are "Classification not possible"

Inhalation(Gases ,Vapors and Dusts& Mists):

"Classification not possible" :All components are "Classification not possible"

Skin Corrosion/Irritation:

"Classification not possible" :All components are "Classification not possible"

Serious Eye Damage /Eye Irritation:

"Classification not possible" :All components are "Classification not possible"

Respiratory Sensitisation:

"Classification not possible" :All components are "Classification not possible"

Skin Sensitisation:

"Classification not possible" :All components are "Classification not possible"

Germ Cell Mutagenicity:

"Category 2" : "Category 2" >=1%

Carcinogenicity:

"Classification not possible" :All components are "Classification not possible"

Reproductive Toxicity:

"Classification not possible" :All components are "Classification not possible"

Specific Target Organ Toxicity - Single Exposure:

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“Classification not possible” :All components are “Classification not possible”

Specific Target Organ Toxicity - Repeated Exposure:

“Classification not possible” :All components are “Classification not possible”

Aspiration Hazard:

“Classification not possible” :All components are “Classification not possible”

Chemical name	Bisphenol F type epoxy resin	Butylphenylglycidylether	A mine adduct with epoxy resin
Wt%	55~60	5~7	17~21
Cas.No.	9003-36-5	3101-60-8	Registered
Acute Toxicity – Oral	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Dermal	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Gases)	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Vapors)	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Dusts)	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Mists)	Classification not possible	Classification not possible	Classification not possible
Skin Corrosion /Irritation	Classification not possible	Classification not possible	Classification not possible
Serious Eye Damage / Eye Irritation	Classification not possible	Classification not possible	Classification not possible
Respiratory Sensitisation	Classification not possible	Classification not possible	Classification not possible
Skin Sensitisation	Classification not possible	Classification not possible	Classification not possible
Germ Cell Mutagenicity	Classification not possible	Classification not possible	Classification not possible
Carcinogenicity	Classification not possible	Classification not possible	Classification not possible
Reproductive Toxicity	Classification not possible	Classification not possible	Classification not possible
Specific Target Organ Toxicity – Single Exposure	Classification not possible	Classification not possible	Classification not possible
Specific Target Organ Toxicity – Repeated Exposure	Classification not possible	Classification not possible	Classification not possible
Aspiration Hazard	Classification not possible	Classification not possible	Classification not possible

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Chemical name	Silica	Talc	Pigment red
Wt%	4~6	10~12	<1
Cas.No.	Registered	Registered	Registered
Acute Toxicity – Oral	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Dermal	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Gases)	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Vapours)	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Dusts)	Classification not possible	Classification not possible	Classification not possible
Acute Toxicity – Inhalation (Mists)	Classification not possible	Classification not possible	Classification not possible
Skin Corrosion /Irritation	Classification not possible	Classification not possible	Classification not possible
Serious Eye Damage / Eye Irritation	Classification not possible	Classification not possible	Classification not possible
Respiratory Sensitisation	Classification not possible	Classification not possible	Classification not possible
Skin Sensitisation	Classification not possible	Classification not possible	Classification not possible
Germ Cell Mutagenicity	Classification not possible	Classification not possible	Classification not possible
Carcinogenicity	Classification not possible	Classification not possible	Classification not possible
Reproductive Toxicity	Classification not possible	Classification not possible	Classification not possible
Specific Target Organ Toxicity – Single Exposure	Classification not possible	Classification not possible	Classification not possible
Specific Target Organ Toxicity – Repeated Exposure	Classification not possible	Classification not possible	Classification not possible
Aspiration Hazard	Classification not possible	Classification not possible	Classification not possible

**Skin Corrosion/Irritation:**

No data.

**Serious Eye Damage /Eye Irritation:**

No data.

**Respiratory Sensitisation**

No data.

**Skin Sensitisation:**

No data.

**Germ Cell Mutagenicity:**

Butylphenylglycidylether (CAS No. 3101-60-8)

This substance is defined to may concern about Germ cell mutagenicity by Ministry of Health, Labour and Welfare in Japan.

By the way, this concern is not listed at EU Reach brief file.

**Carcinogenicity:**

No data.

**Reproductive Toxicity:**

No data.

**Specific Target Organ Toxicity - Single Exposure:**

No data.

**Specific Target Organ Toxicity - Repeated Exposure:**

No data.

**Aspiration Hazard:**

No Data.

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### 12. Ecological information

**Aquatic Environment Acute Hazard:**

“Classification not possible” :All components are “Classification not possible”

**Aquatic Environment Chronic Hazard:**

“Classification not possible” :All components are “Classification not possible”

**Hazard to the ozone layer**

This paste does not contain the Vienna Convention substances.

<b>Chemical name</b>	Bisphenol F type epoxy resin	Butyl phenylglycidylether	A mine adduct with epoxy resin
<b>Wt%</b>	55~60	5~7	17~21
<b>Cas.No.</b>	9003-36-5	3101-60-8	Registered
Aquatic Environment Acute Hazard	Classification not possible	Classification not possible	Classification not possible
Aquatic Environment Chronic Hazard	Classification not possible	Classification not possible	Classification not possible
Hazard to the ozone layer	Not classified	Not classified	Not classified

<b>Chemical name</b>	Silica	Talc	Pigment red
<b>Wt%</b>	4~6	10~12	<1
<b>Cas.No.</b>	Registered	Registered	Registered
Aquatic Environment Acute Hazard	Classification not possible	Classification not possible	Classification not possible
Aquatic Environment Chronic Hazard	Classification not possible	Classification not possible	Classification not possible
Hazard to the ozone layer	Not classified	Not classified	Not classified

**Aquatic Environment Acute Hazard:**

No data

**Aquatic Environment Chronic Hazard:**

No data

### 13. Disposal considerations

**Waste from residues /Product:**

Consult state, local or national regulations for proper disposal.

**Uncleaned packaging:**

**Recommendation:**

Disposal must be made according to official regulations.

### 14. Transport information

UN Recommendation on the Transport of Dangerous Goods – Model regulation

UN Number : Not required

Name and Description :

Class

UN packing group :



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### 15. Regulations

Following sentences has to be added.  
Not to be used by children below 18 years.  
Do not work with the material during pregnancy.

Hazard rating NFPA 704: Health-2 Flammable-1 Reactivity-0 Other-blank

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### 16. Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

The industrial user shall have thorough instruction in how to do the work, the properties of the product and the necessary precautions.

**Department issuing SDS:** Quality Assurance Division. Quality Assurance Department.

**Contact:** Overseas Sales Department