

## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**COMPANY NAME** : HAKKO CORPORATION  
**ADDRESS** : 4-5, Shiokusa 2-chome, Naniwa-ku, Osaka, 556-0024  
 Japan  
**SECTION IN CHARGE** : Research & Development Center  
  
**TELEPHONE NUMBER** : 06-6561-8040  
**FACSIMILE NUMBER** : 06-6568-0821  
**EMERGENCY TELEPHONE NUMBER** : 81-6-6561-3225  
**PERSON IN CHARGE** : Sales Division

**PRODUCT NAME:**

**Model:** No.741-13

### 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Not applicable

GHS LABEL ELEMENTS

PICTOGRAM OR SYMBOL : None  
 SIGNAL WORD : None  
 HAZARD INFORMATION : Not particularly hazardous

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single-ingredient product or mixture: mixture

Chemical Name:

Ingredient	Polyamide
	100%
Natural origin	
CAS No.	68139-70-8

### 4. FIRST-AID MEASURES

**EYE CONTACT** : If molten product contacted eye, immediately cool with water and call a physician. Do not rub the eye or force to open eyelids.



- SKIN CONTACT** : if molten product contacted skin, immediately cool with water and call for medical treatment of burns.
- INHALED** : If inhaled vapor from over-heated product and irritate throat, remove to fresh air and call a physician.
- INGESTED** : Induce vomiting by giving large amount of water or milk.  
Call for medical treatment as soon as possible.

## 5. FIRE FIGHTING MEASURES

Use water (early stage of fire), Dry chemical , carbon dioxide, Dry sand or foaming fire extinguishing media. In case of large fire, do not use water, it may cause hazards of scattering hot water or hot molten product. Foaming type extinguisher is more effective to shut off flow of air.

When fire -fighting, use protective glasses, protective clothing, and when necessary, use respiratory equipment and approach the site from the windward.

Protect the site from entry until product is cooled to safe.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Rope off the site and indicates "AUTHORIZED PERSONNEL ONLY".  
Do not touch or foot leakage.  
Stay windward.  
Ventilate a closed place.  
The workers should use appropriate protective equipment (see "8. EXPOSURE CONTROLS/PERSONAL PROTECTION") to avoid contact with their eyes and skin and inhalation of gas.

Personal protection :

Environmental Protection : Take care to ensure that the product does not cause an environmental effect by being released to any river or the like.

Collection and neutralization : Sweep the leak together, collect it in an empty container and dispose of it later.

Method and materials for contaminant and cleaning up : If not hazardous, stop leakage.

Preventive measures for secondary disaster : Immediately eliminate all the ignition sources (Prohibition of smoking, igniting and flaming).

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## 7. HANDLING & STORAGE

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<b>HANDLING</b>	:	The solder itself has no inflammability and explosibility. Avoid touching the material with bare hands, and clean your hands after use.
<b>STORAGE</b>	:	Store the solder at room temperature in a waterproof place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>CONTROL CONCENTRATION</b>	:	0.1 mg/m <sup>3</sup> (as lead and its compounds)
<b>ALLOWABLE CONCENTRATION</b>	:	0.1 mg/m <sup>3</sup> (as lead and its compounds)
<b>FACILITIES AND EQUIPMENT</b>	:	Local ventilation
<b>PROTECTIVE GEAR</b>	:	Protective gear for respiration: Required Protective goggles: Required Protective gloves: Required Protective wear: Not required

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## 9. PHYSICAL & CHEMICAL PROPERTIES

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<b>APPEARANCE</b>	:	Silver metal.
<b>SOLIDUS</b>	:	183°C
<b>LIQUIDUS</b>	:	190°C
<b>SPECIFIC GRAVITY</b>	:	8.5
<b>VOLATILITY</b>	:	
<b>VAPOR PRESSURE</b>	:	— Pa<
<b>SOLUBILITY</b>	:	— % (insoluble in water).

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## 10. STABILITY & REACTIVITY

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<b>FLASH POINT</b>	:	— °C
<b>IGNITION POINT</b>	:	— °C
<b>EXPLOSION LIMIT</b>	:	Upper limit: —%, lower limit: —%
<b>IGNITING PROPERTY</b>	:	None
<b>HEATING AND COMBUSTION</b>	:	Decomposes and generates toxic fume when heated.

<b>OXIDIZING PROPERTY</b>	: None
<b>SELF-REACTION</b>	: None
<b>DUST EXPLOSIVENESS</b>	: None
<b>STABILITY AND REACTIVITY</b>	: Stable
<b>OTHERS</b>	:

#### **11. TOXICOLOGICAL INFORMATION** (including human cases and epidemiological information)

<b>SKIN CORROSIVENESS:</b>	: None
<b>IRRITATION (SKIN AND EYES)</b>	: None
<b>SENSITIZATION</b>	: None
<b>ACUTE TOXICITY</b>	: Symptoms of digestive organs, such as loss of appetite, constipation, abdominal discomfort, and abdominal colic; and extensor paralysis of limbs
<b>SUBACUTE TOXICITY</b>	: Symptoms of digestive organs, such as loss of appetite, constipation, abdominal discomfort, and abdominal colic; and extensor paralysis of limbs
<b>CHRONIC TOXICITY</b>	: Symptoms of digestive organs, such as loss of appetite, constipation, abdominal discomfort, and abdominal colic; and extensor paralysis of limbs
<b>CARCINOGENICITY</b>	: None
<b>MUTAGENICITY</b>	: None
<b>GERMINAL MUTATION</b>	: None
<b>TERATOGENICITY</b>	: None

#### **12. ECOLOGICAL INFORMATION**

<b>CUMULATIVE EFFECTS</b>	: No data is available.
<b>FISH-TOXICITY</b>	: No data is available.
<b>DEGRADABILITY</b>	: No data is available.

#### **13. DISPOSAL CONSIDERATIONS**

- Dispose of the product of in accordance with the related local regulation.
- Care must be taken on waste solder as it might elute depending upon the environmental conditions.

#### **14. TRANSPORTATION INFORMATION**

- Observe the general precautions.

#### **15. REGULATORY INFORMATION**

- Ordinance on the Prevention of Lead Poisoning
  - Air Pollution Control Law: Toxic substances (lead and its compounds) in Article 1 of the applicable enforcement ordinance
  - Water Contamination Prevention Law: Toxic substances (lead and its compounds) in Article 2 of the applicable enforcement ordinance
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## 16. OTHER INFORMATION

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- Reference: 13700 Chemical Products : Kagaku Kogyo Nipposha (2000)  
International Chemical Substances Safety Card(ICSC),Japanese Version  
: Kagaku Kogyo Nipposha (1997)

Established on Mar. 15, 2002

Revised on Dec 1, 2015

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The information and data contained herein are subject to the normal use. The evaluation of dangerousness and toxicity is, therefore, not always applicable. For this reason, the safety precautions suitable for your purpose and method must be taken prior to the use.