

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY NAME** : Hakko Corporation  
**ADDRESS** : 4-5, Shiokusa 2-chome, Naniwa-ku, Osaka, 556-0024  
 Japan  
**SECTION IN CHARGE** : Research & Development Center  
**EMERGENCY TELEPHONE** : 81-6-6561-3225 (FAX: 06-6568-0821)  
**NUMBER/REFERENCE** : Sales Division

**PRODUCT NAME: Hakko Wick (desoldering wire)**

**Model: No.87-2~6, 87-2-30, 87-3-30, 87-4-30, 87-4-100**

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Physical and chemical hazards

Combustible solids : N/A for categorization

Health hazards

acute toxicity oral : N/A for categorization

acute toxicity dermal : Category 5

acute toxicity Inhalation: gas : N/A for categorization

acute toxicity Inhalation: vapor : N/A for categorization

acute toxicity Inhalation: dust : Category 4

acute toxicity Inhalation : mist : N/A for categorization

Skin corrosion • Skin irritation : Category 3

Serious eye damage /Eye irritation : Category 2B

Respiratory sensitizer : Category 1

Skin sensitizer : Category 1

Germ-cell mutagenicity : N/A for categorization

Carcinogenicity : N/A for categorization

Reproductive toxicity : N/A for categorization

Specific target organ systemic toxicity – single exposure : N/A for categorization

Specific target organ systemic toxicity – repeated exposure : N/A for categorization

Aspiration hazard : N/A for categorization

#### Environmental hazards

Acute hazards to the aquatic environment : N/A for categorization

Chronic hazards to be the aquatic environment : N/A for categorization

#### GHS LABEL ELEMENTS

PICTOGRAM OR SYMBOL :



SIGNAL WORD : Danger

HAZARD INFORMATION : Potentially hazardous by skin contact  
 Hazardous by inhalation  
 Mild skin irritation  
 Eye irritation  
 Inhalation may cause allergy, asthma symptoms or breathing difficulties.  
 May cause allergic skin reaction.  
 Toxic to aquatic organisms because of the long-term adverse effects.

#### CAUTIONARY STATEMENT

[SAFETY MEASURES]

- Avoid inhalation of dust, fume, or vapor.
- Limit the use to an outdoor or well-ventilated location.
- Well wash the hands after handling.
- Do not bring the contaminated clothes out of the workplace.
- Use appropriate protective gear.

[FIRST AID MEASURES]

- Avoid releasing the product to the environment.
- If someone inhales the product, move him to a location with fresh air and rest him in the easy-to-breath position.

- If someone feels sick by inhaling the product, contact the doctor.
- If the product gets into the eye, carefully rinse the eye for more than 15 minutes.  
If contact lenses are used and can be removed easily, remove them.  
Subsequently continue to rinse the eye.
- If eye irritation continues after the product has got into the eye, receive medical attention.
- If someone is difficult to breath after inhaling the product, move him to a location with fresh air and rest him in the easy-to-breath position.
- If any respiration-related symptom appears, contact the doctor.
- If the product adheres to the skin, rinse the skin with a large amount of water and soap.
- If skin irritation or skin eruptions occur after the product has adhered to the skin, receive medical attention.

#### Storage

- Store the product in a well-ventilated location.

#### Disposal

- Use a licensed specialized waste disposer to dispose of the product.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

Single substance or mixture: mixture

Chemical name		Composition (%)		Chemical formula	CAS No.
Flax	Resin	< 5%	20-30%	—	8050-09-7
	Fatty acid		70-80%	—	67701-06-8
Copper	—	> 95%	—	Cu	7440-50-8

---

### 4. FIRST-AID MEASURES

---

- 
- Eye contact** : Rinse the eye with clean water for at least 15 minutes and then receive medical attention.
- Skin contact** : Well rinse the skin with a large amount of water and soap.  
If skin irritation or skin eruptions occur, receive medical attention.
- Inhalation** : Move the victim to a location with fresh air and rest him in the easy-to-breath position.  
If any respiration-related symptom appears, contact the doctor.
- Ingestion** : Rinse the mouth.  
If the victim feels sick, receive medical attention.
- 

## 5. FIRE FIGHTING MEASURES

---

**Extinguishing media** : Water spray, fire-extinguishing foam, fire-extinguishing powder, carbon dioxide, and dry sand

**Special fire fighting procedures** : If not hazardous, move the container from the fire area.  
Remove the ignition source if it can be done safely.

**Extinguishing media not to be used** : Compressed water spray

**Protection of fire fighters** : Use an appropriate self-contained compressed air breathing apparatus and a flameproof wear.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

**Personal protection** : Remove all the ignition source.

**Environmental Protection** : Do not release the product to the environment.

**Removing procedures** : Collect the product in an empty container for subsequent disposal.

---

## 7. HANDLING & STORAGE

---

### Handling

**Technical measures** : Well ventilate the workplace locally and wear masks to prevent the inhalation of dust.

**Precaution** : Use appropriate protective gear during work while giving consideration to the countermeasures against static electricity.

**Storage**

Storage conditions : Avoid storing the container at high temperature and store it in a general indoor warehouse.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**MEASURES FOR EQUIPMENT** : Use enclosed equipment or apparatuses, or provide a local ventilator.

**CONTROL CONCENTRATION** : Not specified

**ALLOWABLE CONCENTRATION**

The Japanese Society for Hygiene : Not specified  
(year 1999 edition)

ACGIH (year 1995 edition) : Not specified

**Protective gear**

Protective gear for respiratory : Dustproof mask

Protective gear for eyes : Goggle type

Protective gloves : Rubber gloves

Protective clothing : Antistatic working wear

**9. PHYSICAL AND CHEMICAL PROPERTIES**

## PHYSICAL PROPERTIES

**PHYSICAL STATE** : Rosin coated copper braid

**APPEARANCE** :

Color :

Odor : Characteristic odor

pH : No data available

**Softening temperature** : 50°C min.

**Boiling point/range** : No data available

**Flash point** : 170°C

**Explosion range – Lower limit (%)** : No data available

**Explosion range – Upper limit (%)** : No data available

**Vapor pressure** : No data available

**Vapor density** : No data available

**Specific gravity** : No data available

**Solubility in water** : Insoluble in water

**Octanol/water partition coefficient** : No data available  
**Decomposition temperature** : No data available

## 10. STABILITY AND REACTIVITY

**Stability** : Considered stable when stored and handled in compliance with the applicable laws and regulations.

**Reactivity** : Decomposed with irritating fume generated, when heated.

**Conditions to avoid** : Heating

**Incompatible materials** : Oxidant and alkali

**Hazardous decomposition products** : Irritating fume

**Self-reaction** : Not a self-reactive substance under the Fire Defense Law

**Dust explosibility** : No information available

**Stability and reactivity** : Stable under the normal conditions

**Others** : Avoid contact with strong alkali.

## 11. TOXICOLOGICAL INFORMATION (Including symptom of human and epidemical information)

**Respiratory sensitization** : Classified into category 1 as rosin is classified into group 1 of airway sensitive substances by Japan Society for Occupational Health.

**Skin sensitizer** : Classified into category 1 as rosin is classified into R43 in the EU classification (EU-Annex I).

**Acute toxicity (oral)** : Determined as N/A because the rat LD50 value is 7600 mg/kg and fatty acids are 5000 mg/kg.

**Acute toxicity (dermal)** : Classified into category 5 based on the rat LD50 value, the rosin value of 2500 mg/kg, and the fatty acid value of 5000 mg/kg.

**Acute toxicity (inhalation: dust)** : Classified into category 4 based on the rat LC50 (6h) value and the rosin value of 1.5 mg/L.

**Skin corrosion/Skin irritation** : Classified into category 3 as mild irritation was reported in a rosin test using rats.

**Serious eye damage / Eye irritation** : Classified into category 2B as mild irritation was reported in a rosin test using rats.

**Germ-cell mutagenicity** : Determined as N/A because a micronucleus test using bone marrow of mice to which the product was orally given showed a negative result (rosin).

**Carcinogenicity** : Determined as N/A because no data on rosin was available although data on fatty acid was provided in IARC or NTP.

**Reproductive toxicity** : No data available

**Specific target organ /Single exposure** : No data available

**Specific target organ /Repeated exposure** : No data available

**Aspiration hazards** : No data available

## 12. ECOLOGICAL INFORMATION

**Acute hazards to the aquatic environment** : Not classified as due to 5% content of rosin.

**Chronic hazards to be the aquatic environment** : Not classified as due to 5% content of rosin.

**Others** : No information available

## 13. DISPOSAL CONSIDERATIONS

Treat and dispose of the product in compliance with the applicable laws and regulations or use a licensed disposer to dispose of the product.

## 14. TRANSPORTATION INFORMATION

Avoid direct sun light and ensure that collapse of cargo piles is prevented.

## 15. REGULATORY INFORMATION

---

<b>Industrial safety and health act</b>	:	Deleterious material whose name and other information should be reported (Article 57-2 of the Law; Appendix 9 for Article 18-2 of the Enforcement Law) (government ordinance No. 491).
<b>Fire Defense Law</b>	:	Specified flammable material (flammable solid)
<b>Pollutant Release and Transfer Register(PRTR)Law</b>	:	
<b>Ship safety act</b>	:	
<b>Civil aeronautics Act</b>	:	

---

## 16. OTHER INFORMATION

---

Reference:

Manufacturer-issued MSDS  
Established on June 21, 2000  
Revised on May 13, 2019

---

This document has been prepared based on the information and data that are available as of this date. Therefore, it may be revised when new information or data has been obtained. 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.