

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY NAME : Hakko Corporation
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Japan
SECTION IN CHARGE : Research & Development Center
EMERGENCY TELEPHONE : 81-6-6561-3225 (FAX: 06-6568-0821)
NUMBER/REFERENCE : Sales Division

PRODUCT NAME: Cleaning wire for HAKKO 599/599B

Model: No.599-029

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 : N/A for categorization
toxicity – single exposure

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

Aspiration hazard : N/A for categorization

Environmental hazards

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

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

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	< 1%	20-30%	—	8050-09-7
	Fatty acid		70-80%	—	67701-06-8
Brass	—	> 99%	—	BSBM	

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 : If not hazardous, move the container from the fire area.

fighting procedures 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 brass wire

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 4 based on the rat LD50 (6h) value and the rosin value of 1.5 mg/L.

Acute toxicity (inhalation: dust) : 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.

- 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 1% content of rosin.

- Chronic hazards to be the aquatic environment** : Not classified as due to 1% content of rosin.

- Others** : No information available
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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

Industrial safety and health act :

Fire Defense Law : Specified flammable material (flammable solid)

Pollutant Release and Transfer Register(PRTR)Law :

Ship safety act :

Civil aeronautics Act :

16. OTHER INFORMATION

Reference:

Manufacturer-issued MSDS

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.