

Established on Apr. 1, 2004

MATERIAL 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
PERSON IN CHARGE : Makoto Onda
EMERGENCY TELEPHONE NUMBER : 81-6-6561-3225
PERSON IN CHARGE : Sales Division

PRODUCT NAME: Cleaning wire for HAKKO 599/599B

Model: No. 599-029

2. COMPOSITION/INFORMATION ON INGREDIENTS

Single-ingredient product or mixture: mixture

Ingredient	Rosin		Brass
Chemical Name	Fatty acid	Resin	Brass
Content	0.099%	0.001%	99.9%
Chemical formula	R-COOH	-	BSBM
Official Gazette Notice Ref. No. (The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances and Industrial Safety and Health Law)	2-608	Natural resin	-
CAS No.	61790-38-3	8050-09-7	-
UN Classification	-	-	-
UN No.	-	-	-
PRTR No.	-	-	-

※ No hazardous ingredients are contained although rosin with content of 0.1% may cause an allergic reaction.

3. HAZARDS IDENTIFICATION

TAXONOMIC GROUP NAME

DANGEROUSNESS : Data not available.

HAZARDOUSNESS : Data not available.

ENVIRONMENTAL EFFECTS : Data not available.

4. FIRST-AID MEASURES

IF IN EYES : Do not rub or close the eyes.
Remove foreign matter, rinse the eyes with running water, and then immediately see a doctor for treatment.

IF ON SKIN : The skin will not be damaged, but may become irritated.

IF INGESTED : Vomit the ingested material if possible and see a doctor for treatment.

IF TOUCHED WHEN HEATED : Rinse the skin with water and apply treatment for burns.

5. FIRE FIGHTING MEASURES

EXTINGUISHING PROCEDURES : Do not use water for extinguishing fire, but use the following extinguishing media.

EXTINGUISHING MEDIA : Use carbon dioxide foam, sand, or soil.

6. ACCIDENTAL RELEASE MEASURES

Sweep the released material and dispose of it as nonflammable garbage.

7. HANDLING AND STORAGE

HANDLING : Use the material in a well-ventilated place. If not in such a place, install a local exhaust system.

STORAGE : Store the material at room temperature while avoiding direct sunlight and keeping away from any high-temperature object.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ALLOWABLE CONCENTRATION : Data not available.

FACILITIES CONTROL MEASURES : Local exhaust

PROTECTIVE GEAR : Protective gear for respiration: Not necessary.
Protective goggles: Use protective goggles when cutting the material into short pieces.
Protective gloves: Use gloves if the skin becomes irritated with rosin.
Protective wear: Not necessary

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Rosin-coated brass wire
VOLATILITY	: None
IGNITION POINT	: Data not available.
STABILITY	: Stable
REACTIVITY	: Stable
SOLUBILITY	: Rosin is not soluble in water; it is partially soluble in alcohol and other aromatic solvent.

10. STABILITY AND REACTIVITY

FLASH POINT	: Data not available.
IGNITION POINT	: Data not available.
FLAMMABILITY	: Data not available.
SPONTANEOUS IGNITION	: Data not available.
OXIDATION	: If the material is allowed to stand under wet conditions for long hours, copper may be oxidized.

11. TOXICOLOGICAL INFORMATION

The material does not particularly irritate the skin, but rosin of its contents may cause an allergic reaction.

12. ECOLOGICAL INFORMATION

DEGRADABILITY	: Data not available.
COMMULATIVE EFFECTS	: Data not available.
FISH TOXICITY	: Data not available.

13. DISPOSAL CONSIDERATIONS

Comply with the applicable regional regulation.

The cleaning wire that is to be disposed of contains solder, which might be eluted depending upon the environmental conditions. Therefore, care must be taken accordingly.

14. TRANSPORTATION INFORMATION

Comply with general precautions.

15. REGULATORY INFORMATION

PRTR law : N/A

(Information on rosin)

Fire Service Law : Combustible solid category (3,000 kg) of combustible materials specified in Schedule 4 to Article 9-3 Enforcement Ordinance

16. OTHER INFORMATION

Reference : Chemical product of 13700

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.