

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	:	Wick FR-551 <NO CLEAN & HALOGEN FREE>
Model No.	:	FR551-1515-E, FR551-2015-E, FR551-2515-E, FR551-3015-E FR551-5015-E, FR551-20250-E, FR551-25250-E, FR551-30250-E FR551-1515-C, FR551-2015-C, FR551-2515-C, FR551-3015-C, FR551-5015-C
Company name	:	Hakko Corporation
Address	:	4-5, Shiokusa 2-chome, Naniwa-ku, Osaka, 556-0024 Japan
Department in charge	:	Sales Division
Phone number	:	+81-6-6561-3225
Fax number	:	+81-6-6561-8466
Email address	:	cs@hakko.com
Recommended use	:	Desoldering wire
Restrictions on use	:	Seek professional judgment when using for other than recommended applications.

SECTION 2: Hazards identification

GHS classification

Physical hazards

Explosives	:	Classification not possible
Flammable gases	:	Not applicable
Aerosols	:	Not applicable
Oxidizing gases	:	Not applicable
Gases under pressure	:	Not applicable
Flammable liquids	:	Not applicable
Flammable solids	:	Classification not possible
Self-reactive substances and mixtures	:	Classification not possible
Pyrophoric liquids	:	Not applicable
Pyrophoric solids	:	Classification not possible
Self-heating substances and mixtures	:	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	:	Classification not possible
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Classification not possible
Organic peroxides	:	Classification not possible
Corrosive to metals	:	Classification not possible
Desensitized explosives	:	Classification not possible

Health hazards

Acute toxicity, oral	:	Classification not possible
Acute toxicity, dermal	:	Classification not possible
Acute toxicity, inhalation (gas)	:	Not applicable
Acute toxicity, inhalation (vapour)	:	Classification not possible
Acute toxicity, inhalation (dust and mist)	:	Category 4
Skin corrosion/irritation	:	Classification not possible
Serious eye damage/eye irritation	:	Classification not possible
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Germ cell mutagenicity	:	Classification not possible
Carcinogenicity	:	Classification not possible
Reproductive toxicity	:	Classification not possible
Reproductive toxicity, effects on or via lactation	:	Classification not possible
Specific target organ toxicity - single exposure	:	Category1: Digestive organs Category3: Respiratory tract irritation
Specific target organ toxicity - repeated exposure	:	Classification not possible
Aspiration hazard	:	Classification not possible

Environmental hazards

- Hazardous to the aquatic environment, short-term(acute)hazard : Classification not possible
- Hazardous to the aquatic environment, long-term(chronic)hazard : Classification not possible
- Hazard to the ozone layer : Classification not possible

Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

- : May cause an allergic skin reaction.(H317)
- Harmful if inhaled.(H332)
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.(H334)
- May cause respiratory irritation.(H335)
- Causes damage to organs Digestive organs.(H370)

Precautionary statements

Prevention

- : Do not breathe dust/fume/gas/mist/vapours/spray.(P260)
- Wash thoroughly after handling.(P264)
- Do not eat, drink or smoke when using this product.(P270)
- Use only outdoors or in a well-ventilated area.(P271)
- Contaminated work clothing should not be allowed out of the workplace.(P272)
- Wear protective gloves/protective clothing/eye protection/face protection.(P280)
- wear respiratory protection.(P284)

Response

- : IF ON SKIN: Wash with plenty of water(P302+P352)
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)
- IF exposed or concerned: Call a doctor(P308+P311)
- Call a doctor if you feel unwell.(P312)
- If skin irritation or rash occurs: Get medical advice/attention.(P333+P313)
- If experiencing respiratory symptoms: Call a doctor(P342+P311)
- Take off contaminated clothing and wash it before reuse.(P362+P364)

Storage

- : Store in a well-ventilated place. Keep container tightly closed.(P403+P233)
- Store locked up.(P405)

Disposal

- : Dispose of contents/container in accordance with international/national/provincial/municipal regulations.(P501)

SECTION 3: Composition/information on ingredients

- Category of chemical substance/mixture : Mixture
- Chemical name or generic name : Wick

Ingredient name	Content (wt%)	CAS No.
Copper	95-97%	7440-50-8
Rosin	3-5%	Proprietary

Note: The range of content is considered a trade secret.

Regulated Components

Component	Industrial Safety and Health Act	PRTR Law
Copper	Subject to labeling and notification	Not applicable to designated chemical substances
Rosin	Not applicable to labeling and notification	Not applicable to designated chemical substances

SECTION 4: First-aid measures

- If inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a doctor if you feel unwell.
If experiencing respiratory symptoms: Call a doctor.
- If on skin : IF ON SKIN: Wash with plenty of water.



- If in eyes : If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
: Rinse cautiously with water for at least 15 minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention.
- If swallowed : Rinse mouth. Do not give anything by mouth to an unconscious person.
Call a POISON CENTER/doctor.
Do not induce vomiting unless directed by a doctor.
- Special notes to an attending doctor : Wear personal protective equipment.

SECTION 5: Fire-fighting measures

- Suitable extinguishing media : Use dry powder, foam, carbon dioxide, or sand for extinguishing.
- Unsuitable extinguishing media : Apply water spray in a straight stream.
- Special hazards arising from the substance or mixture : The fire may produce irritating, toxic, or corrosive gases.
- Specific fire-fighting measures : Conduct firefighting from the upwind side as much as possible.
Restrict access to the area around the fire to authorized personnel only.
- Special protective equipment and precautions for fire-fighters : Wear personal protective equipment.
Firefighters must wear self-contained breathing apparatus (SCBA) and full firefighting gear.

SECTION 6: Accidental release measures

- Personal precautions, protective Equipment and emergency procedures : If indoors, ensure adequate ventilation until the cleanup is complete.
Restrict access to the area around the spill by using barriers such as ropes to keep unauthorized personnel out.
Wear appropriate protective equipment during handling, and avoid skin contact with splashes or inhalation of gases. Conduct work from the upwind side and evacuate people downwind.
- Environmental precautions : Prevent the spilled product from being released into rivers or other bodies of water to avoid environmental impact.
Ensure that contaminated wastewater is properly treated and not discharged into the environment.
- Methods and material for containment and cleaning up : Sweep up any scattered material and collect it in a sealed, empty container.
- Preventive measures for secondary accident : Thoroughly clean contaminated objects and areas in accordance with environmental regulations.

SECTION 7: Handling and storage

Handling

- Technical measures : Implement engineering controls described in section 8 (Exposure Controls and Personal Protection) and wear protective equipment.
- Safety Handling Precautions : Contaminated work clothing should not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Prevent leaks, spills, and scattering, and avoid unnecessary generation of dust or vapor.
Keep container tightly closed after use.
- Contact Avoidance : Avoid contact with alkaline substances and strong oxidizing agents.
- Hygiene measures : Avoid contact with skin, eyes, and clothing. Do not inhale fumes.
Wear personal protective equipment.
After handling, wash hands and face thoroughly and rinse mouth.

Storage

- Storage conditions : Store in a tightly closed container in a cool, well-ventilated area, protected from light.
- Storage conditions to be avoided : Keep away from alkaline substances and strong oxidizing agents.
- Safe Container and Packaging Materials : Polyethylene.

SECTION 8: Exposure controls/personal protection

Adopted value

Japan Society for Occupational Health	:	Not established.
ACGIH	:	Copper (fume): 0.2 mg/m ³ TWA Copper (dust and mist): 1 mg/m ³ TWA

Equipment measures	:	For indoor workplaces, ensure source containment or install local exhaust ventilation. Install safety showers and hand washing/eye washing facilities near the handling area, and clearly mark their locations.
Protective equipment		
Respiratory protection	:	Wear a dust mask.
Hand protection	:	Wear protective gloves.
Eye/face protection	:	Use safety glasses with side shields (goggles or full-face protective eyewear if necessary).
Skin and body protection	:	Wear long-sleeved work clothes.
Special requirements	:	Wash hands thoroughly after handling.

SECTION 9: Physical and chemical properties

Physical state	:	Copper mesh wire coated with rosin
Color	:	copper color
Odor	:	No data available
Melting point/Freezing point	:	No data available
Boiling point	:	No data available
Flammability	:	No data available
Lower explosive limit (LEL) and upper explosive limit (UEL)	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	No data available
Viscosity, kinematic	:	No data available
Solubility	:	insoluble in water
Partition coefficient n-octanol/water(log)	:	No data available
Vapor pressure	:	No data available
Density•Relative density	:	No data available
Relative vapor density	:	No data available
Particle characteristics	:	No data available
Other data	:	Copper may oxidize if left under humid conditions for an extended period.

SECTION 10: Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	May degrade when exposed to light.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Contact with incompatible materials. Direct sunlight, high temperatures.
Incompatible materials	:	Alkalis, oxidizing agents.
Hazardous decomposition products	:	Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

Acute toxicity, oral	:	Not classifiable
Acute toxicity, dermal	:	Not classifiable
Acute toxicity, inhalation (gas)	:	Does not fall under gas based on GHS definitions.
Acute toxicity, inhalation (vapour)	:	Not classifiable
Acute toxicity, inhalation (dust and mist)	:	H332 Harmful if inhaled
Skin corrosion/irritation	:	Not classifiable
Serious eye damage/eye irritation	:	Not classifiable
Respiratory sensitization	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization	:	H317 May cause an allergic skin reaction
Germ cell mutagenicity	:	Not classifiable
Carcinogenicity	:	Not classifiable

Reproductive toxicity	:	Not classifiable
Reproductive toxicity/Lactation	:	Not classifiable
Specific target organ toxicity - single exposure	:	H370 Causes damage to organs Digestive organs H335 May cause respiratory irritation
Specific target organ toxicity - repeated exposure	:	Not classifiable
Aspiration hazard	:	Not classifiable

SECTION 12: Ecological information

Ecotoxicity	:	
Hazardous to the aquatic environment, acute aquatic toxicity	:	Not classifiable
Hazardous to the aquatic environment, chronic aquatic toxicity	:	Not classifiable
Persistence and degradability	:	No data available
Bioaccumulation	:	No data available
Mobility in soil	:	No data available
Hazard to the ozone layer	:	Not classifiable

SECTION 13: Disposal considerations

Residual waste	:	Dispose of through an industrial waste disposal contractor authorized by the governor of the relevant prefecture. The disposed wick contains solder, which may leach depending on environmental conditions, so caution is required.
Contaminated containers/packaging	:	After completely removing the contents from used containers, entrust disposal to an industrial waste disposal contractor authorized by the governor of the relevant prefecture.

SECTION 14: Transport information

International regulations	:	
UN number	:	Does not meet classification criteria.
Proper shipping name	:	Does not meet classification criteria.
Class or division	:	Does not meet classification criteria.
Packing group	:	Does not meet classification criteria.
Domestic regulations	:	Follow general precautions.
Domestic regulations	:	

SECTION 15: Regulatory information

Industrial Safety and Health Act	:	【Chemical Substances Requiring Delivery of Documents, etc.】 Copper and its compounds: Cabinet Order, Appended Table 9, No. 379 (until March 31, 2025) Cabinet Order, Appended Table 9, No. 22 (from April 1, 2025)
	:	【Skin Irritating Hazardous Substances】: Copper
PRTR Act	:	Not classifiable
Poisonous and Deleterious Substances Control Act	:	Not classifiable
Japan Air Pollution Control Act	:	【Substances that may be classified as Hazardous Air Pollutants (128 of Central Environment Council 9th Report (Appendix 1))】: Copper and its compounds
Japan Water Pollution Prevention Act	:	【Designated Substances (Article 3-3-53 of Cabinet order)】: Copper and its compounds

SECTION 16: Other information

Sources Manufacturer's SDS

This SDS has been prepared in accordance with JIS Z 7253:2019. The information and data provided herein are based on the information available at the time of preparation and may be revised as new knowledge becomes available. The content described applies to the product under normal conditions of use, and the evaluation of hazards and risks may not be fully exhaustive. Therefore, please implement appropriate safety measures suited to the application and usage before use.

Issue date : October 2, 2024