

Safety Data Sheet

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

Product name	:	Chemical paste
Model No.	:	No. FS100-01
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	:	Soldering tip refresher

SECTION 2: Hazards identification

GHS classification


Physical hazards

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

Health hazards

Acute toxicity, oral	:	Category 4
Acute toxicity, dermal	:	Not classified
Acute toxicity, inhalation (gas)	:	Not classified (Not applicable)
Acute toxicity, inhalation (vapour)	:	Not classified

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Acute toxicity, inhalation (dust and mist)	:	Not classified
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
Respiratory sensitization	:	Not classified
Skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity - single exposure	:	Category 3: Respiratory irritation
Specific target organ toxicity - repeated exposure	:	Category 1: Lungs
Aspiration hazard	:	Not classified
Environmental hazards		
Hazardous to the aquatic environment, acute aquatic toxicity	:	Not classified
Hazardous to the aquatic environment, chronic aquatic toxicity	:	Not classified
Hazard to the ozone layer	:	Not classified
Label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Harmful if swallowed. Skin irritation. Serious eye irritation. May cause respiratory irritation. Lung damage due to prolonged or repeated exposure.
Precautionary statements		
Safety precautions	:	Obtain the user manual before use. Do not handle until all safety instructions have been read and understood. Avoid inhaling dust, smoke, gas, mist, vapor, or spray. Wash hands thoroughly after handling. Do not eat, drink, or smoke while handling. Wear specified personal protective equipment (PPE). Keep contaminated work clothes in the work area. If ventilation is inadequate, wear respiratory protection.
First-aid measures	:	If skin irritation, seek medical attention. If feeling unwell, seek medical attention.
Storage	:	Store in a closed container in a cool, well-ventilated area under lock and key.
Disposal	:	Dispose of in accordance with local and national regulations.

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SECTION 3: Composition/information on ingredients

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

Ingredients and concentration or concentration range

Ingredient name	Content (%)	CAS No.
Tin powder	50%	7440-31-5
Paraffin wax	7%	8002-74-2
Alicyclic amine hydrobromide	20%	Existing chemical substance - Confidential
Aliphatic amine hydrobromide	2%	Existing chemical substance - Confidential
Petrolatum	21%	8009-03-8

SECTION 4: First-aid measures

If inhalation : Remove to fresh air and allow to rest in a position comfortable for breathing.
 Seek medical attention immediately.
 If feeling unwell, seek medical attention.

If on skin : Remove all contaminated clothing immediately.
 Seek medical attention immediately.
 Wash skin immediately with plenty of water.
 Wash skin with running water or shower.
 Seek medical attention.
 If feeling unwell, seek medical attention.
 Launder contaminated clothing before reuse.

If in eyes : Seek medical attention immediately.
 Wash thoroughly with water for at least 15 minutes.
 If contact lenses are present and can be easily removed, remove them.
 Continue rinsing until irritation subsides.
 Seek medical attention.

If swallowed : If feeling unwell, seek medical attention.
 Seek medical attention immediately.
 Induce vomiting immediately and seek medical attention from a doctor.
 Rinse mouth with water.
 Do not induce vomiting.
 Seek medical attention.
 If feeling unwell, seek medical attention.

Expected acute and delayed symptoms : If on skin:
 Irritating to the skin.
 Skin irritation, redness, and swelling.
 If inhalation:
 Vapors and mists may irritate the lungs and upper respiratory tract.
 If in eyes:
 Irritating to the eyes, skin, or respiratory system.

SECTION 5: Fire-fighting measures

Suitable extinguishing media : Special powder fire extinguishant, dry sand

Unsuitable extinguishing media : Other extinguishing agents

Special hazards arising from the substance or mixture : Do not use water jets to extinguish.
 May generate irritating, corrosive and/or toxic gases on fire.
 Reacts with strong oxidizers.

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- Specific fire-fighting measures : Move containers from fire area if it is safe to do so.
If the container cannot be moved, apply water to the container and surrounding area to cool.
- Special protective equipment and precautions for fire-fighters : Wear appropriate respiratory protection and chemical protective clothing (heat-resistant) when fighting fire.

SECTION 6: Accidental release measures

- Personal precautions, protective Equipment and emergency procedures : Immediately isolate the leak area by creating a safe distance in all directions.
Keep out of reach of unauthorized persons.
Workers should wear appropriate personal protective equipment (PPE) as described in Section 8, Exposure Control and Precautions. Avoid contact with eyes, skin, and inhalation of fumes.
Do not touch damaged containers or spilled material without appropriate personal protective equipment.
- Environmental precautions : Prevent leaked product from discharging into rivers or other water bodies, which could cause environmental impact.
Do not release to the environment.
- Methods and material for containment and cleaning up : Gather up and collect in a container.
Stop leaks if safe to do so.
- Preventive measures for secondary accident : Remove all sources of ignition (no smoking, open flames, or sparks in the vicinity).
Wipe up spills immediately to prevent slipping.

SECTION 7: Handling and storage

Handling

- Technical measures : Storage areas must be equipped with the necessary lighting, ventilation, and illumination to store or handle hazardous materials.
- Exhaust/ventilator : Provide local exhaust ventilation and general ventilation as described in Section 8, Exposure Control and Precautions.
- Safety Handling Precautions : Obtain the user manual before use.
Read and understand all safety precautions before handling this product.
Avoid inhaling dust or fume.
Avoid contact with eyes and skin.
Do not contact, inhale, or ingest.
Do not eat, drink, or smoke while handling.
Wash hands thoroughly after handling.
Use outdoors or in well-ventilated areas only.
- Contact Avoidance : Refer to Section "10. Stability and reactivity".

Storage

- Storage conditions : Store away from heat, sparks, and open flames.
Store in a locked container.
Keep container tightly closed, and store in a well-ventilated area.
No smoking.
- Incompatible materials : Store away from oxidizers.
- Safe Container and Packaging Materials : Use a closed, unbreakable container.

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SECTION 8: Exposure controls/personal protection

Adopted value

Japan Society for Occupational Health	:	Not specified.
ACGIH	:	TLV-TWA 2mg/m ³ (as Tin powder·Paraffin wax)

Equipment measures : Eyewash stations and safety showers must be provided in work areas where this substance is stored or handled.
 Provide exhaust ventilation to keep the concentration of the substance in the air below the exposure limit.
 When dust or fumes are generated in high-temperature processes, ventilation systems must be installed to keep air pollutants below the control concentration.
 To keep the concentration of the substance in the air below the recommended control concentration, engineering controls such as process enclosure, local exhaust ventilation, and other equipment measures must be used.

Protective equipment

- Respiratory protection : Wear a respirator.
- Hand protection : Wear protective gloves.
- Eye protection : Wear safety glasses.
- Skin and body protection : Wear protective clothing as needed.

SECTION 9: Physical and chemical properties

- Physical state : Opaque semisolid material
- Color : Opaque gray
- Odor : None
- Melting point/Freezing point : Over 40°C
- Boiling point : Data not available
- Flammability : Data not available
- Lower explosive limit (LEL) and upper explosive limit (UEL) : Data not available
- Flash point : Over 180°C
- Auto-ignition temperature : Data not available
- Decomposition temperature : Data not available
- pH : Data not available
- Viscosity, kinematic : Data not available
- Solubility : Data not available
- Partition coefficient n-octanol/water (log) : Data not available
- Vapor pressure : Data not available
- Density·Relative density : Data not available
- Relative vapor density : Data not available
- Particle characteristics : Data not available

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SECTION 10: Stability and reactivity

Reactivity	:	It may slightly deliquesce when exposed to air.
Chemical stability	:	Stable under normal storage and handling conditions.
Possibility of hazardous reactions	:	May react with strong oxidizers, acids, strong bases, halogens, and sulfur.
Conditions to avoid	:	Heat, air, and water.
Incompatible materials	:	Strong oxidizers, Acids, Strong bases, Halogens, Sulfur.
Hazardous decomposition products	:	When heated, it decomposes and emits harmful fumes (hydrogen chloride), carbon monoxide, and carbon dioxide.

SECTION 11: Toxicological information

Acute toxicity, oral	:	H302 : Harmful if swallowed
Acute toxicity, dermal	:	Not classified
Acute toxicity, inhalation (gas)	:	Not classified as a gas according to GHS
Acute toxicity, inhalation (vapour)	:	Not classified
Acute toxicity, inhalation (dust and mist)	:	Not classified
Skin corrosion/irritation	:	H315 : Skin irritation
Serious eye damage/eye irritation	:	H319 : Serious eye irritation
Respiratory sensitization	:	Not classified
Skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Reproductive toxicity/ Lact. ('effects on/via lactation')	:	Not classified
Specific target organ toxicity - single exposure	:	H335 : May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	:	H372 : May cause pulmonary damage through prolonged or repeated exposure.
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

Hazardous to the aquatic environment, acute aquatic toxicity	:	Not classified
Hazardous to the aquatic environment, chronic aquatic toxicity	:	Not classified
Ecotoxicity	:	Not classified
Persistence and degradability	:	Not classified
Bioaccumulation	:	Not classified
Soil mobility	:	Not classified
Hazard to the ozone layer	:	Not classified

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SECTION 13: Disposal considerations

- Residual waste : Disposal must comply with applicable laws and regulations, as well as local government standards.
Waste must be disposed of by a waste disposal company that has been approved by the prefectural governor, after the contents have been completely removed.
In the event of waste disposal, the hazardous and harmful properties of the waste must be fully notified to the disposal company or other relevant parties prior to disposal.
- Contaminated containers/packaging : Containers should be cleaned and recycled, or disposed of in accordance with applicable laws and regulations and local government standards.
Remove the contents completely before disposing of the empty container.

SECTION 14: Transport information

International regulations

- UN number : Not classified
- Proper shipping name : Not classified
- Class or division : Not classified
- Packing group : Not classified

Domestic regulations

- Maritime regulation information : Non-hazardous material
- Aviation regulation information : Non-hazardous material
- Land transport regulation information : Complies with the Fire Prevention Ordinance (Paraffin wax)
- Special safety precautions for Transportation or transportation means : Load the containers in a way that prevents them from falling, tipping, or being damaged.
Transport the containers in a way that minimizes friction and vibration.
If there is a risk of a disaster, such as a significant leak of the contents during transportation, take emergency measures to prevent the disaster and notify the nearest fire department or other relevant authorities.

SECTION 15: Regulatory information

- Industrial Safety and Health Act : Labeling/Chemical subject to SDS provision
(Table 9-322) 【Tin and its compounds】
(Table 9-170) 【Paraffin wax】
- PRTR Act : Not classified
- Poisonous and Deleterious Substances Control Act : Not classified
- Fire Defense Law : Designated flammables (flammable solids)

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SECTION 16: Other information

Sources Manufacturer's SDS

This data is based on information and data available at the time of its creation and may be revised based on new findings.

The information provided is based on normal use conditions and the hazard assessment may not be complete. Therefore, please use the product in accordance with the intended use and application, and implement appropriate safety measures.

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