

SAFETY DATA SHEET (SDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : Hot melt adhesive
 Model No : 811, 812, A1305, A1306
 Company name : Hakko Corporation
 Address : 4-5, Shiokusa 2-chome, Naniwa-ku, Osaka, 556-0024 Japan
 Department in charge : Sales Division
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2. HAZARDS IDENTIFICATION

GHS classification of chemicals
 Data corresponding to GHS classification have not been obtained.
 GHS label elements
 No information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Category of chemical substance/mixture : Mixture
 Chemical name or generic name : Ethylene-vinyl acetate copolymer hot-melt adhesive

Ingredient name	Content (%)	CAS No.
Ethylene-vinyl acetate copolymer, etc.	100%	business confidentiality

4. FIRST-AID MEASURES

If inhaled : Move the patient to a location with fresh air and rest him or her in a position comfortable for breathing.
 If feeling unwell, call a physician.
 If symptoms related to breathing occur, contact a physician.
 If throat or other symptoms occur after inhaling vapors from an excessively heated product, move the person to fresh air immediately.

If adhered to skin : Wash with water and soap.
 If feeling unwell, call a physician.
 If product in a heated molten state adheres to the skin, immediately cool with water and provide medical treatment for burns.

If in eyes : Rinse carefully with water for several minutes. Next, remove contact lenses if they are worn and can be easily removed.
 Continue rinsing.
 If eye irritation persists, seek medical attention.
 If product in a heated molten state gets into eyes, cool with water immediately and seek medical attention from an ophthalmologist. Do not rub or force open eyes.

If swallowed : Rinse mouth.
 If feeling unwell, call a physician.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media : Small fires: Powder fire extinguishers, carbon dioxide.
Large fires: foam
- Fire extinguishing media that should not be used : Water injected in the form of a stick
- Specific hazards in case of fire : Fire may produce irritating and/or toxic gases.
- Specific extinguishing methods : Move container out of fire area if not dangerous.
- Special protective equipment and precautions for firefighters : Wear protective clothing (heat-resistant), including an air respirator, when extinguishing fire.

6. ACCIDENTAL RELEASE MEASURES

- Personnel precautions, protective equipment and emergency procedures : Stay upwind.
Do not touch or walk through leaks.
Rope off the area and prohibit entry except by authorized personnel.
Ventilate enclosed areas before entering.
Wear appropriate protective equipment (see "8. Exposure Controls and Personal Protection") and avoid contact with the eyes and skin and inhalation.
- Environmental precautions : Must not be released into the environment.
Take care not to discharge into rivers, etc., so as not to affect the environment.
- Methods and materials for containment and cleaning up : Stop the leak if it is not dangerous.
Sweep up the leakage and collect it in an empty container for later disposal.
- Preventive measures for secondary accident : Promptly remove all ignition sources (no smoking, sparks or flames in the vicinity)

7. HANDLING & STORAGE

- Handling
- Technical Measures : Take the facility measures specified in "8. EXPOSURE CONTROLS/PERSONAL PROTECTION" and wear the protective.
Take the local exhaust ventilation and general ventilation as described in "8. EXPOSURE CONTROLS/PERSONAL PROTECTION" .
- Safety Handling Precautions : Do not handle until all safety precautions have been read and understood.
Prohibit the use of hot materials, sparks, and fire in the vicinity.
Do not tip over, drop, shock, or drag container.
Avoid swallowing.
Avoid contact with skin.
Avoid contact with eyes.
- Contact Avoidance : Refer to "10. STABILITY AND REACTIVITY".
- Hygiene measures : Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product.



Storage

- Safe Storage Conditions : Take technical measures in accordance with the provisions of the Fire Service Law, etc.
Provide lighting, lighting, and ventilation facilities necessary for storing or handling the designated flammables in the storage area.
Store away from ignition sources such as heat, sparks, and naked flames. No smoking.
Store in a cool, well-ventilated place.
Keep containers tightly closed.
Keep out of sunlight.
Refer to "10. STABILITY AND REACTIVITY".
- Safe container and packaging materials : Packaging and containers are not regulated, but should be placed in sealed, unbreakable containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	Management Concentration	Allowable concentration (Japan Society for Occupational Health)	Acceptable Concentration (ACGIH)
Solid paraffin (fume)	Not set	Not set	TWA2mg/m ³ , STEL -

- Equipment measures : Use process containment, local exhaust ventilation, and other facility measures.
Facilities where this product is stored or used should have eye wash facilities and safety showers.
- Protective equipment
- Respiratory protection : Dust-proof masks, simple dust-proof masks
- Hand protection : Protective gloves, heat-resistant gloves
- Eye and face protection : Protective eyewear (standard glasses, standard glasses with side plates, goggles)
- Skin and body protection : Long-sleeved work clothes, safety shoes

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical Condition : solid-state
- Shape : Stick-shaped
- Color : Slight yellow
- Odor : Slight odor
- Melting point and freezing point : No data available
- Boiling point or first distillation point and boiling range : No data available
- Flammability : No data available
- Lower explosive limit and upper explosive limit / flammability limit : No data available

Flash Point	:	200°C or higher (Cleveland open type)
Spontaneous combustion point	:	No data available
Decomposition temperature	:	No data available
pH	:	No data available
Kinematic viscosity	:	No data available
Solubility	:	Insoluble in water, partially soluble in organic solvents
n-octanol/water partition coefficient (log value)	:	No data available
Vapor pressure	:	No data available
Density and/or relative density	:	0.85 to 1.05(20°C)
Relative gas density	:	No data available
Particle properties	:	No data available
Other data	:	Softening point (Ring method): 90°C (typical value)

10. STABILITY AND REACTIVITY

Reactivity	:	No useful information at present.
Chemical stability	:	Stable under normal handling. At temperatures above 180°C, the product gradually decomposes or polymerizes, causing viscosity change, discoloration, and non-fusion.
Possibility of Hazardous Reactions	:	No useful information at present.
Conditions to avoid	:	No useful information at present.
Incompatible materials	:	No useful information at present.
Hazardous decomposition products	:	No useful information at present.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral)	:	Cannot classify due to lack of data.
Acute toxicity (dermal)	:	Cannot classify due to lack of data.
Acute toxicity (inhalation: gases)	:	Not a gas according to the QHS definition.
Acute toxicity (inhalation: vapours)	:	Cannot classify due to lack of data.
Acute toxicity (inhalation: dust, mist)	:	Cannot classify due to lack of data.
Skin corrosion/irritation	:	Cannot classify due to lack of data.
Serious eye damage/eye irritation	:	Cannot classify due to lack of data.
Respiratory sensitization	:	Cannot classify due to lack of data.
Skin sensitization	:	Cannot classify due to lack of data.
Germ cell mutagenicity	:	Cannot classify due to lack of data.
Carcinogenicity	:	Cannot classify due to lack of data.
Reproductive toxicity	:	Cannot classify due to lack of data.
Reproductive toxicity, lactation effects	:	Cannot classify due to lack of data.
Specific target organ toxicity (single exposure)	:	Cannot classify due to lack of data.
Specific target organ toxicity (repeated exposure)	:	Cannot classify due to lack of data.

Mishandling toxicity : Cannot classify due to lack of data.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Hazardous to the aquatic environment : Cannot classify due to lack of data.

(short term/acute)

Hazardous to the aquatic environment : Cannot classify due to lack of data.

(long-term/chronic)

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in Soil : No data available

Hazardous to the ozone layer : Cannot classify due to lack of data.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods : For disposal of this product, comply with the applicable law and the local government's regulations.

When industrial waste disposers are licensed by the governor or local authorities dispose of waste, request them.

Before requesting the disposal of waste, ensure that the industrial waste disposer is made well aware of hazards and toxicity.

Contaminated containers and packages : The containers should be cleaned and then recycled or should be disposed of in accordance with the applicable law and the local government's regulations.

When disposing of empty containers, completely remove the contents.

14. TRANSPORT INFORMATION

UN Number : Not applicable

Product name (UN shipping name) : Not applicable

UN Classification : Not applicable

Container Class : Not applicable

Marine pollutant : Not applicable

Liquid substances transported in bulk according to MARPOL 73/78 Annex II and IBC Code. : Not applicable

Domestic regulation : Refer to " 15.REGULATORY INFORMATION"

Special safety measures : Avoid direct sunlight and high temperatures.

Ensure that containers are not damaged, corroded, or leaking before transport.

Emergency Action Guideline No. : Not applicable
Ensure that containers are loaded without tipping, falling, or damage, and that they are protected from unloading.

15. REGULATORY INFORMATION

Fire Defense Law : Designated combustible synthetic resin
Pollutant Release and Transfer Register(PRTR)Law : Not applicable

16. OTHER INFORMATION

Manufacturer-issued SDS

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.

Established on January 19, 1998

Revised on June 23, 2023