

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY NAME : Hakko Corporation
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SECTION IN CHARGE : Research & Development Center
EMERGENCY TELEPHONE : 81-6-6561-1574 (FAX: 81-6-6568-0821)
NUMBER/REFERENCE : Sales Division

PRODUCT NAME: Hot melt adhesive

Model: 811, 812, A1305, A1306

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Physical and chemical hazards	Pyrophoric liquids	The product contains flammable ingredients, but is not subject to the classification of pyrophoric property due to its incombustibility under normal conditions of use.
	Pyrophoric solids	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	:	Hot melt adhesive based on ethylene-vinyl acetate copolymer	
Ingredient and its content	:	Ethylene-vinyl acetate copolymer, etc.	
Chemical formula	:		
CAS No.	:	24937-78-8	
ENCS No.	:	(6)-6	
UN Classification	:		
UN number	:		

Industrial safety and health act (japan)	:	Hazardous and toxic materials whose names should be reported (Article 57-2 of the act; Appendix 9 in Article 18-2 of the enforcement regulations) Solid paraffin : 1 to 10%
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4. FIRST-AID MEASURES

- Eye contact** : Carefully rinse the eye with water for a few minutes. Next, remove any contact lens used if it can be removed easily. Subsequently resume rinsing. If eye irritation still continues, receive medical attention. If the molten product gets into the eye, immediately cool the eye with water and see an ophthalmologist. Do not scrub the eye or forcibly open the eye.
- Skin contact** : Rinse the skin with water and soap. If the victim feels sick, contact a doctor. If the molten product adheres to the skin, immediately cool the affected area with water and then receive medical care for burns.
- Inhalation** : Move the victim to a place with fresh air and let him/her take a rest in an easy-to-breathe position. If any respiratory symptom develops, contact a doctor. If the victim feels sick, also contact a doctor. If the throat or the like becomes abnormal by inhaling vapor from the excessively heated product, immediately move the victim to a place with fresh air.
- Ingestion** : Rinse the mouth. If the victim feels sick, contact a doctor.

5. FIRE FIGHTING MEASURES

- Extinguishing media** : Minor fire: Fire-extinguishing powder, carbon dioxide, and sprinkling of water
Major fire: Fire-extinguishing foam
- Special fire fighting procedures** : Move the container from the fire area if not dangerous.
- Extinguishing media not to be used** : Straight stream
- Protection of fire fighters** : During fire fighting, wear suitable protective clothing including a self-contained breathing apparatus.
- Unusual fire and explosion hazards**
- Special hazard** : A fire may cause irritating and/or toxic gas to be generated.

6. ACCIDENTAL RELEASE MEASURES

Personal protection :

Stretch a rope or the like to ensure that only authorized personnel can enter. Do not touch the released product or walk through it. Stay windward. Ventilate any closed place.

Protective gear and emergency measures : The worker should wear the appropriate protective gear (see "**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**") and avoid any contact with the skin and eye.

Environmental Protection : Do NOT let the product enter the environment including drainage systems.

Recovery and neutralization : Recover the released product in an empty container by sweeping it and then dispose of the container.

Containment and cleaning methods and equipment : Stop the releases if not dangerous.

Preventive measures against secondary disaster : Immediately remove all ignition sources (smoking, firework, and flames near the product are prohibited).

7. HANDLING & STORAGE

Handling

Technical measures : Take the facility measures specified in "**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**" and wear the protective gear.

Handling precautions :

Protection against ingestion :

Storage

Storage conditions : Store the product while keeping away from any heat, spark, naked flame, or other ignition source -- No smoking. Store the product in a well-ventilated cold place. Seal the container when storing the product. Shield the product from sunlight.

- Storage Precautions :
- Dangerous material for mixed contact : See "**10. STABILITY AND REACTIVITY.**"
- Incompatible material :
- Local/general ventilation system : Carry out the local and general ventilations specified in "**8. EXPOSURE CONTROLS/PERSONAL PROTECTION.**"
- Safety precautions for safe handling** : Do not handle the product until all the safety precautions have been understood. It is prohibited to use any high-temperature object, spark, or fire around the product. Well wash the hands after handling the product. Do not handle the product, e.g. by tumbling or dropping the container, giving an impact to the container, for dragging the container. Avoid swallowing the product. Avoid any contact of the product with the skin and eye.
- Avoidance of contact:** : See "10. STABILITY AND REACTIVITY."
- Technical measures** : Take technical measures in compliance with the regulations such as the Fire Defense Law. Store the specified combustible material in the storage place and provide the natural and electric illumination and ventilation facilities that are required for handling the product.
- Container and packaging materials : No regulations are applicable for the container and packaging. However, the product should be put in a sealed container that will not be broken.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- PROTECTIVE FACILITIES : Make the process closed and use local ventilation and other facilities. It is recommended that the facilities to store or use this product be equipped with eye cleaning facilities and a safety shower.
- Standard control concentration
- Allowable concentration : Not specified

Protective gear

- Protective gear for respiratory : Dust-protective mask or simplified one
- Protective gear for eyes : Protective glasses (ordinary glasses, ordinary glasses type with side plates, or goggle type)



Protective gloves :

Protective gear for skin and body : Long-sleeved working clothe and safety footwear

Sanitary requirements : Thoroughly wash the hands after handling. When using this product, do not drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

APPEARANCE	:
Form	Stick
Color	Milky white
Odor	Slight odor
pH	: No data is available.
Boiling point/range, initial boiling point	: No data is available.
Melting point/freezing point	
Melting point/range	:
Flash point	200°C min. (Cleaveland open type)
Ignition point	:
Autoignition temperature	No data is available.
Explosion range – Lower limit (%)	:
Explosion range – Upper limit (%)	:
Explosion percentage	:
Vapor pressure	:
Vapor density	:
Specific gravity	: 0.85 to 1.05 (20°C)
Solubility	: Soluble in water and partially soluble in organic solvent.
Evaporation rate	:
Viscosity	:
Octanol/water partition coefficient	No data is available.

10. STABILITY AND REACTIVITY

Stability / Reactivity	: Stable under the normal handling conditions. Gradually decomposes or becomes polymeric, causing a viscosity change, discoloration, and non-solubility.
Potential hazardous reactivity	: No useful information is available now.

Materials to avoid	:
Conditions to avoid	: No useful information is available now.
Imcompatible materials	: No useful information is available now.
Hazardous decomposition products	: No useful information is available now.

11. TOXICOLOGICAL INFORMATION (Including symptom of human and epidemical information)

Eye contact	:
Skin contact	:
Inhalation	:
Ingestion	:
Skin corrosion/Skin irritation	: No data is available.
Serious eye damage / Eye irritation	: No data is available.
Respiratory or skin sensitization	: No data is available.
Acute toxicity	: No data is available.
Carcinogenicity	: No data is available.
Germ cell mutagenicity	: No data is available.
Reproductive toxicity	: No data is available.
Specific target organ/systemic toxicity	:
Specific target organ /Single exposure	: No data is available.
Specific target organ /Repeated exposure	: No data is available.
Aspiration hazards	: No data is available.
Other toxicological information	:

12. ECOLOGICAL INFORMATION

Mobility	:
Degradation	:
Bioaccumulation	:
Acute hazards to the aquatic environment	:

Chronic hazards to be the aquatic environment :

Toxicity for fish : No data is available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : For disposal, comply with the related regulations and the local government's regulations. If any industrial waste disposer or local authorities dispose of the waste, entrust them with this disposal. For this entrustment, previously make the industrial waste disposer or the like well aware of the hazardous and toxicological properties.

Contaminated containers and packages : Clean the container for recycling or dispose of the container according to the related regulations and the local government's regulations. Make sure the container is completely empty before disposal.

14. TRANSPORTATION INFORMATION

International regulations

Maritime transport regulations: N/A

United Nations No.: N/A

Air transport regulations: N/A

Domestic regulations: Comply with the transport method specified in the Fire Defence Law and the Industrial Safety and Health Law.

Land transport regulations : N/A

Maritime transport regulations : N/A

Proper Shipping Name

Packing Group

Marine Pollutant

Air transport regulations: N/A

Special safety measures : Avoid direct sunlight and high temperature. Prior to transport, check that the container is free from damage, corrosion, leakage, and the like. Load the containers so that they do not tumble or fall and are not damaged and ensure the prevention of the piled containers from collapse.

Emergency Response Guide No.

15. REGULATORY INFORMATION : Laws of Japan

Industrial safety and health act: Hazardous and toxic materials whose names should be reported
(Article 57-2 of the act; Appendix 9 in Article 18-2 of the enforcement regulations)

Labor standard Act

Pollutant Release and Transfer Register(PRTR)Law: N/A

Ship safety act

Civil aeronautics Act

Fire Defence Law : Specified combustible material; synthetic resin, etc.

16. OTHER INFORMATION

Reference:

Manufacturer-issued MSDS

Established on Jan.20, 1998

Revised on Dec.1, 2015

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.