

1. Product and Company Identification

Product	: Hot Stick	HB-40S,	HB-40S-1K,	HB-40S-10K,	HB-40S-B1
chemical name		HB-100S,	HB-100S-1K,	HB-100S-10K,	HB-100S-B1
		HB-200S,	HB-200S-1K,	HB-200S-10K	
Manufacturer	: TAIYO ELECTRIC IND.CO.,LTD.	section	: Engineering department		
Address	: 2-16-8 Yamate Fukuyama Hiroshima 720-0092				
Tel:	: 084-951-1512	Fax:	084-951-9531	E-mail:	info@goot.co.jp
Issue date	: 2016-3-25	Revised date	: 2017-9-25		

2. Hazards Identification

<GHS Classification>	: Not applicable
<GHS label elements>	: Not applicable
<Signal Word>	: Not applicable
<Hazard and toxicity information>	: Burns when the skin comes into contact with heated and melted products Vapors may cause irritating to eyes, nose and respiratory system when heating
<Precautionary statement>	
【Prevention】	: Wear protective gloves. : Do not breathe fume/gas/ produced during heating. : Handle in a place with good ventilation.
【First Aid Measures】	
• IF INHALED	: See “4. First aid measures “
• IF IN EYES	: See “4. First aid measures “
• IF SWALLOWED	: See “4. First aid measures “
• IF ON SKIN	: See “4. First aid measures “
• IF ON CLOTHES	: If products in a heated molten state adhere, take off contaminated clothing
• If exposed or concerned	: Nothing special
• If you feel unwell.	: Get medical advice/attention.
【Storage】	
• Protect from sunlight. Do not expose to temperatures exceeding 40 °C	
【Disposal】	
• Dispose of contents/container in accordance with local/regional/international regulations	

3. Composition / Information on Ingredients

Substance : Mixture

Chemical name (Generic name) : Hot Stick (glue stick)

Concentration or Concentration range

Component	Percent (wt%)	Chemical formula	Chemical Substances Control Law No.in Japan	CAS No.
Ethylene-vinylacetate copolymer	50 - 60	Confidential	(6) - 6	24937-78-8
Hydrocarbon Resin	40 -50	Confidential	Not applicable	69430-35-9

4. First aid measures

• IF INHALED	: Remove the victim to fresh air in case of inhalation with fumes produced during heating. If the victim has a slight throat or symptoms persist, get medical advice/attention.
• IF ON SKIN :	: If products in a heated and molten state adhere, immediately cool down with water and get medical attention. Do not force it off.
• IF IN EYES	: If products in a heated and molten state adhere, immediately cool down with water and get medical attention. Do not let the victim rub his eyes.
• IF SWALLOWED	: Give 2 cups of water. Get medical attention. Do not induce vomiting.
Possible acute symptoms and delayed effects	: Nothing special
Most important effects and symptoms	: Nothing special
Protection for first-aid responders	: Nothing special

5. Fire Fighting Measures

Extinguishing media	: Foam extinguishing agent, Powder type fire extinguishing agent, Carbon dioxide
Unsuitable extinguishing media	: In the case of a large fire, molten products and heated water may scatter when watering is done.
Specific hazards arising from the chemical if burning	: It emits low molecular hydrocarbons and carbon monoxide smoke during incomplete combustion
Specific fire fighting	: If there is a fear that the fire may spread by contamination, use the extinguishing agent shown above with appropriate extinguishing agent other than sprinkling water.
Special protective equipment for fire fighter	: Fire fighting activities from the windward side and avoid toxic gas inhalation. Wear appropriate respirator.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	: Do not touch until heated and melted product becomes solid. It is not necessary in the solid state.
Environmental precautions:	: Product should not be flowed into the environment.
Collection and Neutralization	: When products melted by heating are leaked, they are scraped after the product is cooled and solidified.
Prevention of secondary disaster	: Prevent drainage to drainage ditches, sewer grooves, basements or closed places.

7. Handling and Storage

【Handling】	
Appropriate engineering controls:	: Apply local exhaust ventilation for work in sealed places. Wear protective gloves, protective glasses, long sleeves.
Local exhaust /Total ventilation:	: The local exhaust is used.
General precautions:	: Avoid breathing vapours. Avoid contact with eyes and skin. Do not touch, inhale, and swallow. Use only in a well-ventilated area
【Storage】	
Appropriate engineering controls:	: Protect from sunlight. Do not expose to temperatures exceeding 40 °C

Appropriate storage conditions:	: Store in a cool and well ventilated indoor.
Hazardous substance by mixing	: Strong oxidizer, strong alkali
Safe containers and packaging materials:	: Sealing bag to prevent dust and water

8. Exposure Controls / Personal Protection

Engineering controls:	: When heated and melted, steam is generated, so a local exhaust system is installed.
Exposure limit	: Not established
Tolerable concentration:	: ACGIH TLV(s) TWA Not established Japan Society for Occupational Health Not established

【Personal protective equipment】

Respiratory protection:	: Wear appropriate protective equipment mask.
Hand protective equipment:	: Wear appropriate protective equipment glove.
Eyes protection:	: Wear appropriate protective equipment glasses.
Skin protection	: Long-sleeved work clothes.
Appropriate hygiene measures:	: Wash hands thoroughly after handling.

9. Physical & Chemical Properties

Physical state , Shape, Color	: Solid, Cylindrical, White
Odor	: Light resin odor
PH	: No applicable
Melting point/Freezing point:	: No information available
Boiling point: Initial boiling point:	: No applicable
Boiling range:	
Flash point:	: over 200°C
Autogenous ignition temperature	: No information available
Explosive limits (upper limit):	: No applicable
Explosive limits(lower limit):	: No applicable
Vapor pressure:	: No applicable
Vapor density:	: : No applicable
Specific gravity (Relative density):	: 0.91(25°C)
Solubility:	: Water : Insoluble Organic solvent (Toluene, benzene): Swelling
Viscosity	: 180°C 8000 - 14000cps.

10. Chemical Stability & Reactivity Information

Chemical stability:	: Stable
Possibility of hazardous reactions:	: No information available
Conditions to avoid:	: Direct sunlight, High temperature
Incompatible materials:	: Strong oxidizing agent
Hazardous decomposition products:	: There is a possibility of emitting low molecular weight hydrocarbon and carbon monoxide at incomplete combustion

11. Toxicological Information

Acute toxicity:	: No information available
Skin corrosion/Irritation:	: Touching the heated melted product will cause burns.
Serious eye damage/eye irritation:	: Causes eye irritation. Touching the heated melted product will cause burns.

Respiratory sensitization/skin sensitization:	: No information available
Mutagenicity (Germ cell mutagenicity):	: No information available
Carcinogenicity:	: No information available
Reproductive toxicity:	: Not classified
Specific target organ systemic toxicity - Single exposure:	: Not classified
Specific target organ systemic toxicity - Repeated exposure:	: Not classified
Aspiration hazard	: May cause respiratory irritation

12. Ecological Information

Ecotoxicity	: No information available
Aquatic toxicity (acute)	: No information available
Aquatic toxicity (chronic)	: No information available

13. Disposal Considerations

Residual waste	Dispose in accordance with local/regional/national/international regulations.
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14. Transportation Information

【International Regulation】			
UN No.	: Not applicable		
UN proper shipping name:	: Not applicable		
Class	: Not applicable		
UN classification Class			
Marine pollutant:	: Not applicable		
【Domestic regulations】	Land	Marine	Aviation
Regulations	Non-dangerous goods	Non-dangerous goods	Non-dangerous goods
Special precautions:	: Prevent direct sunlight. Securely conduct load collapse prevention.		

15. Regulatory Information

Fire Service Act	: Designated flammable goods (synthetic resins)	Designated quantity 3000 kg
Industrial Safety and Health Act in Japan	: Not applicable	
Labor Standards Act	: Not applicable	
Ship Safety Act	: Not applicable	
PRTR in Japan	: Class I Designated Chemical Substances Article 1-31(antimony and its compounds)	
RoHS in EU	: Compliance (regulated substances are not included)	

16. Other information

The information herein is given in good faith, but not a warranty. Final determination of suitability any of material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.	
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