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Section 1: Product Information

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Name: HAMATITE GPI-B-UN  
Description: Adhesive  
Use: Primer for Glass/PVC Adhesion  
MSDS number: 7684E  
Appearance and odor: Light yellow liquid, Organic solvent smell  
Contact: Hamatite Technology Dept.  
Emergency telephone: 81-463-31-2766(Hiratsuka, Japan)  
Product information: 81-463-31-2766(Hiratsuka, Japan)  
Effective date: 1/19/06  
Supersedes date: 1/19/06

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Section 2: COMPOSITION/INFORMATION OF INGREDIENTS

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Chemical Name(GENERIC NAME) : Mixture  
Trade Name : HAMATITE GPI-B-UN  
Concentration : 66%  
Chemical Component : Ethyl Acetate : 34%  
Non-Hazardous Ingredients :  
Polyisocyanate : 66%  
CAS Registry Number : Ethyl Acetate :141-78-6  
Non-Hazardous Ingredients :  
Polyisocyanate :53317-61-6

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Section 3: HAZARDS IDENTIFICATION

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Emergency Overview : Amber liquid with aromatic hydrocarbon odor.  
Flammable liquid. It can burn in a fire and toxic gases may be generated.

Potential Health Effect:

INHALATION:

High concentrations of Ethyl Acetate vapor are irritating to skin and respiratory tract. Inhalation of vapor may cause narcotic effects.

SKIN CONTACT:

Frequent or prolonged contact with Ethyl Acetate may cause irritation from defeating of skin. Brief contact will not result in significant irritation.

EYE CONTACT:

May cause irritation.

INGESTION:

May cause injury.

FIRE:

Ethyl Acetate flammable liquid. And their vapors are easy to inflame.

EXPLOSION:

Ethyl Acetate vapor and air are explosive.

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**Section 4: FIRST-AID MEASURES**

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Inhalation :Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.

Skin Contact :Wash away immediately with soap and water. If irritation persists, get medical attention.

Eye Contact :Flash eyes with a large amount of water until irritation subsides. If irritation persists, get medical attention.

Ingestion :Get prompt medical attention.

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**Section 5: FIRE-FIGHTING MEASURES**

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Flashpoint and Method:-4 Closed Cup(Ethyl Acetate)

Flammable Limits: 2.2~11.5% by volume in air(Ethyl Acetate)

Auto-ignition Temperature: 427 (Ethyl Acetate)

General Hazard: Flammable liquid(Ethyl Acetate) Toxic gases will form upon combustion.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide

Extinguishing Media: carbon dioxide, dry chemical powder, foam

Fire Fighting Instructions: Since Ethyl Acetate is insoluble in water and lighter than water, use of water in an uncontained area could spread fire. Restrict of unauthorized personnel.

Protective Equipment: Firefighter should wear protective equipment and self-contained breathing apparatus.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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Take refuge from leeward. Prepare the extinguishing media. Wear protective equipment. Eliminate source of ignition. Keep public away. Contain spilled liquid with sand or earth. Recover by pumping(use the explosion-proof motor or hand pump), or by using a suitable absorbent.

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**Section 7: HANDLING & STORAGE**

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**Handling :**

The operator should be trained in handling this product. Appropriate protective Equipment should be used for this operation. Keep container closed. Use with adequate ventilation. Do not handle near an open flame, sources of heat, or sources of ignition. Avoid contact with eyes and skin. Avoid breathing of vapor.

**Storage:**

Store separate from strong oxidizing materials and basic compounds such as amines. Keep out of reach of children. Keep eyewash bottle ready. Keep away from open flame, heat, and sparks. Keep container closed. Store in cool ventilated place. Don't store above 40 or below 5 .

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**Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

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**Engineering Controls:**

Control airborne concentrations below the exposure guideline. Use only with adequate ventilation. Local exhaust ventilation may be necessary. Use explosion-proof ventilation equipment.

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**Respiratory Protection:**

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus.

**Skin Protection:**

Use chemical resistant gloves.

**Eye Protection:**

Use safety glasses or chemical goggles.

**Exposure Guidelines:**

	<u>ACGIH TLV (TWA)</u>
Ethyl Acetate	400ppm

None established for Polyisocyanate

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**Section 9: PHYSICAL & CHEMICAL PROPERTIES**

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Appearance : Colorless to light yellow liquid, Organic solvent smell  
Boiling point : 77 (Ethyl Acetate)  
Melting point : Unknown  
Specific gravity : 1.13  
Solubility in water : Insoluble  
Water reactive : Stable

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**Section 10: PHYSICAL HAZARD (STABILITY & REACTIVITY)**

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Stability Reactivity : Stable in normal handling conditions and use.  
Oxidative effect : No oxidative effect with other substances.  
Incompatibility : Basic compounds such as amines  
Hazardous decomposition products: Unknown

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**Section 11: TOXICOLOGICAL INFORMATION**

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**Irritation:**

High concentrations of Ethyl Acetate vapor may cause narcotic effects.

**Skin:**

Frequent or prolonged contact with Ethyl Acetate may cause irritation from defeating of skin.

**Eye:**

Ethyl Acetate vapor may cause irritation.

Acute Toxicity (LD50): 5620mg/kg (Oral/Rat); Ethyl Acetate  
>5000mg/kg (Oral/Rat); Polyisocyanate

Chronic Toxicity: May cause conjunctivitis, dizziness, sleeplessness, and gastrointestinal and optical disturbances.

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**Section 12: ECOLOGICAL INFORMATION**

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Aquatic Toxicity: Unknown

Other Information: None

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**Section 13: DISPOSAL CONSIDERATION**

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Mix with a compatible chemical which is less combustibile and incinerate. Any disposal practice must be in compliance with local, state and federal environmental control regulations.

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**Section 14: TRANSPORT INFORMATION**

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UN Class: 3.2(Adhesives, containing a flammable liquid·flashpoint below 23 )

UN Number: 1133

Packing Group:

Follow all regulations in your country.

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**Section 15: REGURATORY INFORMATION**

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Regulatory information with regard to this substance in your country should be examined.

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**Section 16: OTHER INFORMATION**

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In this sheets, the value of content, physical and chemical properties are measurement data, not guarantee value.