

**SECTION1 - PRODUCT INFORMATION**

Name: HAMATITE A-344-B-UN  
 Description: Adhesive  
 Use: Primer for Brake Lining  
 MSDS number: 7658  
 Appearance and odor: Amber 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: 11/13/01  
 Supersedes date: 11/13/01

**SECTION2 - MATERIAL IDENTIFICATION AND INFORMATION**

COMPONENTS-Chemical Name & Common Names (Hazardous Components 1% or greater ; Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Isopropyl Alcohol CAS# 67-63-0 TSCA# Registered	50	Unk	400ppm	
Ethyl Alcohol CAS#64-17-5 TSCA# Registered	20	Unk	1000ppm	
Phenol CAS#108-95-2 TSCA# Registered	4	Unk	5ppm	
Non-Hazardous Ingredients Phenol Resin CAS#9003-35-4 TSCA# 9003-35-4	26			
TOTAL	100			

**SECTION3 - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point	78	Specific Gravity (H <sub>2</sub> O = 1)	0.90
Vapor Pressure (mm Hg and Temperature)	44mmHg	Melting Point	Unk
Vapor Density (Air = 1)	2.1	Evaporation Rate (_____ = 1)	Unk
Solubility In water	Appreciable	Water Reactive	None
Appearance And Odor	Amber liquid, Organic solvent smell		

**SECTION4 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point and Method Used	12	Auto-Ignition Temperature	300 over	Flammability Limits In Air % by Volume	LEL 2.0	UEL 8.0
Extinguisher Media	Form,CO <sub>2</sub> ,dry chemical.					
Special fire Fighting Procedures	Use water spray to keep containers cool					
Unusual Fire and Explosion Hazards	None					

\*Optional

**SECTION 5 - REACTIVITY HAZARD DATA**

<b>STABILITY</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Conditions</b> To avoid
<b>Incompatibility</b> (Materials to avoid)                      None.	
<b>Hazardous</b> If heated to high temperatures, this product may emit flammable solvent <b>Decomposition products</b> vapors,smoke,shoot,CO <sub>2</sub> ,CO	
<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> May occur <input checked="" type="checkbox"/> Will not occur	<b>Conditions</b> To avoid  Not applicable

**SECTION 6 - HEALTH HAZARD DATA**

<b>Primary routes of entry</b> <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin absorption	<b>Ingestion</b> Not hazardous	<b>Carcinogen listed in</b> NTP IRAC Monograph	OSHA Not listed
<b>Health hazardous</b>	<b>Acute</b> Nausea, Vertigo		
	<b>Chronic</b> Anemia, Bronchitis		
<b>Signs and symptoms</b> Of exposure                                      Nausea, Vertigo			
<b>Medical conditions</b> Generally aggravated by exposure                      None			
<b>Emergency first aid procedures</b> Seek medical assistance for further treatment, observation and support if necessary			
<b>Eye contact</b>	Flush eyes with water for at least 15 minutes, lift eyelids frequently. Get prompt medical attention.		
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash affected area with soap and water. If irritation develops, consult a physician.		
<b>Inhalation</b>	Remove to fresh air. If symptoms develop, seek immediate, medical attention. If not breathing, give artificial respiration, preferably mouth to mouth.		
<b>Ingestion</b>	Do not induce vomiting. Obtain medical attention immediately, if unavailable, contact Nearest poison control center. Keep affected person warm and at least.		

**SECTION 7 - CONTROL AND PROTECTIVE MEASURES**

<b>Respiratory protection</b> (specify type)                                      Chemical cartridge respirator for sensitive individuals.			
<b>Protective gloves</b> Poly or rubber gloves		<b>Eye protection</b> Splash-proof goggles.	
<b>Ventilation</b> To be used	<input checked="" type="checkbox"/> Local exhaust adequate to	<b>Mechanical(general)</b> Minimize.	<b>Special</b> None.
	Other(specify) None.		
<b>Other protective</b> Clothing and equipment                      None.			
<b>Hygienic work</b> Practices    Wash hands with soap and water, gargle with water.			

\* Optional

<b>SECTION8 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES</b>
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Steps to be taken if material is spilled or released

Wipe up paper towel or rags ; Clean with solvent-soaked rags.

Waste disposal methods

Disposal should be made in accordance with local, state and federal Appropriate environmental regulations.

Precautions to be taken in Handling and storage

Store in tightly closed containers at temperatures below 80 ° F

Other precautions and / or special hazards

None.

NFPA

Rating\*      Health 2      Flammability 3      Reactivity 0      Special   

HMS

Rating\*      Health 1      Flammability 3      Reactivity 1      Personal Protection H

\*Optional