

Material Safety Data Sheet
Havaflex TA-117 (Part "B")

AMETEK
Chemical Products Division

Prepared 2/06
Revision 2

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Section 1 --- Chemical Product and Company Identification

Trade Name: Havaflex TA-117 (Part "B")
Manufacturer: AMETEK Chemical Products Division
42 Mountain Avenue
Nesquehoning, PA 18240
Emergency Telephone No.: Chemtrec (800) 424-9300

Section 2 --- Composition/Information on Ingredients

<u>Ingredients</u>	<u>CAS NO.</u>	<u>% Comp.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Potassium Alumina Silicate	12001-26-2	Proprietary	20 ppm*	3 mg/m ³ **
Treated Amorphous Fumed Silica	67762-90-7	Proprietary	None	None
Cyclohexanone	108-94-1	Proprietary	50 ppm	20 ppm
Cycloaliphatic Amine	Mixture	Proprietary	None	None
Polythioether Polymer	NA	Proprietary	None	None
Crystalline Silica	14808-60-7	4.9-6.6	A	0.05B
Phenol (free)	108-95-2	<4.3	5 ppm	5 ppm
Formaldehyde (free)	50-00-0	0.17	0.75 ppm***	None
Ethyl Alcohol	64-17-5	Proprietary	1000 ppm	1000 ppm
Phenolic Resin	9003-85-4	Proprietary	None	None
Antimony Trioxide	1309-64-4	Proprietary	None	None
Amidoamine Resin	64-754990	Proprietary	None	None
Lead	7439-92-1	<0.02	C	0.05
Carbon Black	1333-86-4	<1	3.5 mg/m ³	3.5 mg/m ³
Thiodiglycol	000111-48-8	Proprietary	None	None
Arsenic	7440-38-2	<0.02	D	0.01E
Isophoronediamine	2855-13-2	Proprietary	None	None

* Millions of particles per cubic foot of air

** particulate matter containing no asbestos and < 1% crystalline silica.

*** See 29 CFR 1910.1048.

A = Respirable dust: 250% SiO₂ + 5 millions of particles per cubic foot of air (mppcfa); % of crystalline silica based on airborne samples.

B = Respirable fraction of particulate matter for the substance listed. The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in the "c" paragraph of Appendix D.

C = See 29 CFR 1910.1025.

D = Inorganic compounds (as As): 0.01. See 29 CFR 1910.1018.

E = Elemental and inorganic compounds as As.

Section 3 --- Hazard Information

Appearance and Odor: Black-colored highly viscous, but pourable material, slight odor.

HMIS Rating: No hazard rating is available for this product.

Primary Entry Routes: Skin contact, inhalation, ingestion and eye contact.

Effects of Overexposure:

Inhalation: May cause irritation to the upper respiratory tract.

Eye: Slight irritation may be caused in contact with the eyes.

Skin: May be irritating to the skin and repeated contact may cause dermatitis in sensitive individuals.

Ingestion: Not an expected route of entry in industrial uses. However, phenol (free) is highly toxic by ingestion.

Carcinogenicity:

OSHA carcinogens: Lead, arsenic, formaldehyde gas

IARC Class 1 (carcinogenic to humans): Crystalline Silica, formaldehyde gas, arsenic

IARC Class 2B (possibly carcinogenic to humans): Antimony Trioxide, lead, carbon black

IARC Class 3 (possibly carcinogenic to humans): Phenol, Cyclohexanone

NTP 1: (carcinogenic to humans): Arsenic

NTP 2 (reasonably anticipated to be a carcinogen): Formaldehyde gas

Section 4 --- First Aid Measures

Inhalation: Move the person to fresh air and support breathing as required. If symptoms (wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital for treatment.

Eye Contact: First check the victim for contact lenses and remove if present. Lift eyelids and flush immediately with flooding amounts of water for at least 15 minutes. Do not allow the victim to rub his/her eyes or keep them shut. Consult a physician or ophthalmologist if all material cannot be removed or if there is continuing irritation.

Skin Contact: Remove clothing around affected area. Rinse away loose material and wash affected area with mild soap and water. If there is a severe skin reaction or reddened or blistered skin, consult a physician and be prepared to transport the victim to a hospital for treatment.

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Contact a poison control center with information from this MSDS and the Technical Data Sheet on the composition of the material ingested. Unless the poison control center advises otherwise, give the person one or two glasses of water, then induce vomiting. After first aid have the person see a physician for follow up care.

Section 5 --- Fire Fighting Measures

Flash Point: >188 °F, ASTM Method, D 92, Cleveland Open Cup

Autoignition Temperature: None reported

Lower Explosive Limit: None reported

Upper Explosive Limit: None reported.

Extinguishing Media: Carbon dioxide or dry chemical.

Unusual Fire or Explosion Hazards: Under fire conditions polymers decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon monoxide, carbon dioxide.

Fire Fighting: Wear a self-contained breathing apparatus (SCBA) with full facepiece operated in the pressure demand or positive pressure mode. Fumes produced by fire are hazardous. Do not allow runoff from fire fighting to enter roadways or sewers. Material may dry out and present additional fire/explosion hazards.

Section 6 --- Accidental Release Measures

Use appropriate safety equipment. Absorb spills with sand or other non-combustible absorbent and place in waste containers. Dispose of all waste materials according to federal, state, and local environmental regulations.

Section 7 --- Handling and Storage

Handling: Avoid unnecessary skin contact. Handle with care. Handle in well-ventilated area. Use safety glasses with sideshields and impervious gloves whenever handling this material. Allow material to come to room temperature for 24 hours before mixing.

Storage: Store Materials in closed containers at 40°F or lower. Protect containers from physical damage. Shelf life up to one year.

Section 8 --- Exposure Controls and Personal Protection

Engineering Control and Ventilation: General ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection: None required when adequate ventilation conditions exist. Wear a NIOSH approved air purifying respirator if respiratory irritation is experienced.

Eye Protection: Wear safety glasses with side shields and /or goggles as necessary to prevent material from entering eyes.

Skin Protection: Use impervious gloves such as neoprene, nitrile, or rubber for hand protection. These should be worn one day only if exposed to particulates, and washed before reuse.

Other Protective Equipment: Eyewash fountain and safety shower should be in the immediate area.

Section 9 --- Physical and Chemical Properties

Physical State: Black-colored highly viscous, but pourable material.

Appearance/Odor: Slight odor

Solubility: Insoluble

Specific Gravity (H₂O=1): 1.2 gm/cc

Section 10 --- Stability and Reactivity

Stability: Product is stable under normal laboratory conditions, however, excessive heating over long periods of time will degrade the resin.

Chemical Incompatibilities: Mineral acid and strong oxidizing agents.

Hazardous Decomposition Products: Under fire conditions polymers decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon monoxide, carbon dioxide.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Section 11 --- Toxicological Information

Phenol:

Acute inhalation, mouse - LC₅₀ = 177 mg/m³

Acute dermal, rabbit - LD₅₀ = 630 mg/kg

Formaldehyde (free):

Acute inhalation, cat - LC_{LO} = 400 mg/m³/2 hours

Acute oral, rat - LD₅₀ = 500 mg/kg

Ethyl Alcohol:

Acute inhalation, mouse - LC₅₀ = 39 gm/m³/4 hour

Acute intraperitoneal, rabbit - LD₅₀ = 963 mg/kg

Crystalline Silica:

Acute inhalation, mouse - TC_{LO} = 40 mg/kg

Acute intravenous, dog - LD_{LO} = 20 mg/kg

Cyclohexanone:

Acute oral, rabbit - LD_{LO} = 1,600 mg/kg

Acute oral, mouse - LD₅₀ = 1,400 mg/kg

Carbon Black:

Acute inhalation, rat - TC_{LO} = 7 mg/m³

Acute oral, rat - LD_{LO} = 15,400 mg/kg

Lead:

Acute oral, human - LD_{LO} = 155 mg/kg

Acute inhalation, human - LC_{LO} = 271 mg/m³

Arsenic:

Acute oral, child - TD_{LO} = 4 mg/kg

Acute oral, rat - LD_{LO} = 763 mg/kg

Section 12 --- Ecological Information

No information is available.

Section 13 --- Disposal Considerations

Collect spilled material and place in sealed containers for reclamation or disposal. Recycle or dispose of material according to local, state, and federal regulations.

Section 14 --- Transport Information

DOT Proper Shipping Name: Havaflex TA-117, Part “B”
DOT Hazardous Class: None
DOT UN/NA Number: None
Emergency Response Guide Number: None

Section 15 --- Regulatory Information

Component (CAS #)	CERCLA Hazardous Substance (Section 102)	CERCLA Reportable Quantity (Lbs.)	CWA NPDES Discharge (Section 307(a))	CAA Section 112	SARA Toxic Chemical (40 CFR 372)	SARA Extremely Hazardous Substance (40 CFR 355)
12001-26-2	---	---	---	---	---	---
67762-90-7	---	---	---	---	---	---
108-94-1	X	5,000	---	---	---	---
108-95-2	X	1,000	X	X	X	X
50-00-0	X	100	X	X	X	X
9003-85-4	---	---	---	---	---	---
64-17-5	---	---	---	---	---	---
64-754990	---	---	---	---	---	---
1309-64-4	X	1,000	X	---	X	---
2855-13-2	---	---	---	---	---	---
7440-38-2	X	1	X	---	X	---
7439-92-1	X	10	X	---	X	---
14808-60-7	---	---	---	---	---	---
000111-48-8	---	---	---	---	---	---
1333-86-4	---	---	---	---	---	---
Cycloaliphatic Amine	---	---	---	---	---	---
Polythioether Polymer	---	---	---	---	---	---

The listed components by themselves are not classified as RCRA hazardous wastes. However, certain compounds containing some components, or certain processing of some components, may produce hazardous wastes. Consult 40 CFR 261 for classification and lists of hazardous wastes.

Section 16 --- Other Information

The following chemicals are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372: Phenol, formaldehyde, lead, antimony trioxide, and arsenic.

THE ABOVE INFORMATION IS BELIEVED TO BE ACURATE BASED ON THE MOST CURRENT DATA AVAILABLE. AMETEK MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND ASSUMES NO LIABILITY RESULTING FROM ITS USE. USERS ARE ADVISED TO CONDUCT THEIR OWN TEST TO DETERMINE THE SAFETY AND SUITABILITY OF EACH PRODUCT OR PRODUCT COMBINATION FOR THEIR OWN PURPOSES. AMETEK SHALL NOT BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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