



# MATERIAL SAFETY DATA SHEET

HAZARD RATINGS HMIS

Health 2  
Flammability 3  
Reactivity 0  
PPE X

## 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product L1096M  
MSDS Name ADH 1096M GA  
CAS # Mixture  
Generic Description Solvent Based Adhesive  
Manufacturer BOSTIK FINDLEY, INC.

### 24 Hour Emergency Assistance

Phone: 1-800-227-0332

### General Assistance

Phone: 1-978-777-0100

### MSDS Assistance

Phone: 1-978-777-0100

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
METHYL ETHYL KETONE	78-93-3	10 - 30
TOLUENE	108-88-3	10 - 30
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPH. - A COMPLEX COMBIN	64742-89-8	10 - 30
Hexane	110-54-3	1 - 5
Non-hazardous and other ingredients below reportable levels	Proprietary	Balance

## 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Liquid and vapors are flammable. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion will cause nausea, vomiting, pain, upset stomach, and diarrhea.

### POTENTIAL HEALTH EFFECTS

**SKIN CONTACT:** This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin.

**EYE CONTACT:** Liquid or vapors may irritate the eyes. Prolonged or repeated contact may worsen irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**INHALATION:** This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

**INGESTION:** This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### TARGET ORGANS

Central Nervous System, Lungs, Skin.

MSDS Number 19392 Product L1096M  
Label Number 19392 NA = Not Available ND = Not Determined

### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Irritation, headaches, dizziness, giddiness, lightheadedness, drowsiness, lethargy, breathing difficulty, chest pain, coughing, dry skin, abdominal pain, cramps, nausea, vomiting.

## **4 FIRST AID MEASURES**

### **SKIN**

Remove contaminated clothing to prevent further skin exposure and dispose of properly. In situations involving considerable skin contact, place the contaminated person in a deluge shower for at least 15 minutes. For minor exposures, wash thoroughly with soap and clean water. Get medical attention if irritation persists.

### **EYE**

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

### **INHALATION**

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.

### **INGESTION**

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

### **NOTES TO PHYSICIAN**

If overexposure to the solvents in this product is suspected, testing should include nervous system and brain effects including recent memory, mood, concentration, headaches and altered sleep patterns. Liver and kidney function should be evaluated.

## **5 FIRE FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

Use dry chemical, carbon dioxide, or foam. Use water spray on large fires. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity.

### **BASIC FIRE FIGHTING PROCEDURES**

Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

### **DUST EXPLOSION HAZARD**

None Known

### **SENSITIVITY TO MECHANICAL IMPACT**

None Known

### **SENSITIVITY TO STATIC DISCHARGE**

Sparks generated by static discharge may ignite this product or its vapors.

### UNUSUAL FIRE & EXPLOSION HAZARDS

This product is classified as a Combustible Liquid. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. Vapors may be heavier than air and may travel long distances along the ground before igniting back to vapor source. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.

### FIRE FIGHTING EQUIPMENT/INSTRUCTIONS

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Flash Point	0 F (-18 C)
Autoignition Point	960 F (516 C)
Lower Explosive Limit	1.8 %
Upper Explosive Limit	11.5 %

## 6 ACCIDENTAL RELEASE MEASURES

### EMERGENCY ACTION

WARNING, Extremely flammable. Eliminate all sources of ignition. Restrict persons not wearing protective equipment from area until cleanup is complete. Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up.

### CONTAINMENT

Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with non-flammable absorbent and place in closed chemical waste containers.

## 7 HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

### HANDLING

Keep this product from heat, sparks, or open flame. Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Use this product with adequate ventilation.

### STORAGE

Keep the container tightly closed and in a cool, well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition.

### EMPTY CONTAINER PRECAUTION

Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits. Explosion proof exhaust ventilation should be used.

### EYE PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

Wear chemical goggles; face shield (if splashing is possible).

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### SKIN PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

- Impervious gloves should be used at all times when handling this product. Recommended gloves include rubber, neoprene, nitrile or viton. Use of protective coveralls and long sleeves is recommended. Safety equipment suppliers/manufacturers can provide recommendations on the most protective glove/clothing material for your operation.

### RESPIRATORY PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

Avoid breathing vapor and/or mists. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.

### GENERAL

Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

### EXPOSURE LIMITS

#### ACGIH - Occupational Exposure Limits - 8 Hour TWAs

HEXANE	110-54-3	500 ppm TWA
METHYL ETHYL KETONE	78-93-3	200 ppm TWA
SILICA, QUARTZ	14808-60-7	0.05 mg/m <sup>3</sup> TWA (respirable fraction)
TOLUENE	108-88-3	50 ppm TWA

#### OSHA - Vacated PELs - Time Weighted Averages

HEXANE	110-54-3	500 ppm TWA; 1800 mg/m <sup>3</sup> TWA
METHYL ETHYL KETONE	78-93-3	200 ppm TWA; 590 mg/m <sup>3</sup> TWA
SILICA, QUARTZ	14808-60-7	0.1 mg/m <sup>3</sup> TWA (respirable dust)
TOLUENE	108-88-3	100 ppm TWA; 375 mg/m <sup>3</sup> TWA

## 9 PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	114 - 285 F (46 - 141 C)
Vapor Pressure	76
Vapor Density	3
Solubility in Water	7.3 %
Target Solids	23.4 %
pH	N/A
Density	0.87 g/cc
Odor Threshold	N/D
Octanol/Water Coefficient	N/D
Odor	Solvent
Color	Amber
Physical State	Liquid
Freeze Protect	No

## 10 STABILITY & REACTIVITY

### STABILITY/INCOMPATIBILITY

Stable under normal conditions.

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#### HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS

If product is burned carbon monoxide, carbon dioxide, and other unknown products may be produced.

#### HAZARDOUS POLYMERIZATION

Will not occur.

#### CONDITIONS TO AVOID

Keep away from sources of ignition. Avoid Strong Acids. Avoid Strong Oxidizers. Avoid contact with Strong Alkalis.

## 11 TOXICOLOGICAL INFORMATION

#### LD50

##### NIOSH - Selected LD50s and LC50s

HEXANE	110-54-3	Inhalation LC50 Rat : 48000 ppm/4H Oral LD50 Rat : 28710 mg/kg
METHYL ETHYL KETONE	78-93-3	Inhalation LC50 Rat : 23500 mg/m3/8H Inhalation LC50 Mouse : 32 gm/m3/4H Oral LD50 Rat : 2737 mg/kg Oral LD50 Mouse : 4050 mg/kg Dermal LD50 Rabbit : 6480 mg/kg
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE	112945-52-5	Oral LD50 Rat : 3160 mg/kg
TOLUENE	108-88-3	Inhalation LC50 Rat : 49 gm/m3/4H Inhalation LC50 Mouse : 400 ppm/24H Oral LD50 Rat : 636 mg/kg Dermal LD50 Rabbit : 14100 uL/kg

#### CARCINOGENICITY

This product itself is not a listed carcinogen by OSHA, IARC or NTP.

##### IARC - Group 1 (carcinogenic to humans)

SILICA, QUARTZ 14808-60-7 Monograph 68, 1997

##### NTP - Ninth Report - Known Carcinogens

SILICA, QUARTZ 14808-60-7 Known Carcinogen

##### OSHA - Select Carcinogens

SILICA, QUARTZ 14808-60-7 Monograph 68, 1997 (IARC - Group 1 (carcinogenic to humans)) Known Carcinogen (NTP Ninth Report - Known Carcinogens)

## 12 ECOLOGICAL INFORMATION

VOC (Volatile Organic Compounds) 659 g/l (5.49 lbs/gal)

#### ECOTOXICOLOGICAL INFORMATION

Organic solvents produce slight to moderate toxicity to aquatic life. Insufficient data exists to evaluate the effect on plants, birds or land animals.

## 13 DISPOSAL CONSIDERATIONS

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

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## WASTE DISPOSAL

- Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## 14 TRANSPORT INFORMATION

Proper Shipping Name	Adhesives
Hazard Class	3
UN/NA Code	UN1133
Packing Group	II

## 15 REGULATORY INFORMATION

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

### FEDERAL REGULATIONS

All components are on the U.S. EPA TSCA Inventory List.

#### CERCLA/SARA - Hazardous Substances and their Reportable Quantities

HEXANE	110-54-3	final RQ = 5000 pounds (2270 kg)
METHYL ETHYL KETONE	78-93-3	final RQ = 100 pounds (45.4 kg)
TOLUENE	108-88-3	final RQ = 10 pounds (4.54 kg)

Based on an evaluation of the components used, this product does contain hazardous ingredients identified as per 29 CFR 1910.1200.

### STATE REGULATIONS

If this product contains any ingredients listed under California Proposition 65, they will be noted below:

#### California - Prop. 65 - Cancer list

BENZENE	71-43-2	carcinogen; initial date 2/27/87
SILICA, QUARTZ	14808-60-7	carcinogen (airborne particles of respirable size); initial date 10/1/88

#### California - Prop. 65 - Developmental Toxicity

BENZENE	71-43-2	developmental toxicity; initial date 12/26/97
TOLUENE	108-88-3	developmental toxicity; initial date 1/1/91

#### California - Prop. 65 - Reproductive - Male

BENZENE	71-43-2	male reproductive toxicity; initial date 12/26/97.
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### INTERNATIONAL REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS), Class D Division 2 Sub-division B. and Class B Division 2.

All components of this product are listed either in the Canadian Domestic Substances List (DSL) or the Non-domestic Substance List (NDSL).

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**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES**

Not Regulated

**SARA 311/312 HAZARD CATEGORIES**

Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

**SARA 313 TOXIC CHEMICALS**

Component	CAS Number	Percentage
METHYL ETHYL KETONE	78-93-3	10 - 30
TOLUENE	108-88-3	10 - 30
Hexane	110-54-3	1 - 5

**WHMIS RATINGS**

Compressed Gas	Flammable/Combustible X	Oxidizer	Acutely Toxic
Other Toxic Effects X	Bio Hazardous	Corrosive	Dangerously Reactive

**16 OTHER INFORMATION****DISCLAIMER**

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. 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. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik Findley, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Issue Date	17-Apr-2002	Supercodes	17-Apr-2002
Prepared By	Richard Sontag		

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