



## Technical Data Sheet [TDS]

### AAT-105 Flammable Contact Adhesive

AAT-105 is specifically formulated for bonding plastic laminate to plywood, particle board, metal, rubber, fabrics, leather, etc. Caution should be taken when using AAT-105 as this adhesive is EXTREMELY FLAMMABLE. Pilot lights, heaters or any possible source of spark or ignition should be turned off or removed from the immediate area of use.

#### Warning:

**EXTREMELY FLAMMABLE** – Vapors may cause flash fire. DO NOT use near fire or flame!

#### Application Instructions:

1. Surface must be dry, free of dirt, grease, etc.
2. Stir adhesive well before applying. Apply even coat over both surfaces to be bonded. Do not apply over painted surface.
3. If applied to wood or porous surface, wait 30-40 minutes and reapply adhesive.
4. Allow adhesive to dry completely (to touch). Bond in immediate upon touching two surfaces together. Be sure to position before touching surfaces together.
5. Use board with paper to secure position, slowly remove paper after position is acquired.
6. Press firmly with hand roller to secure bond.

#### CAUTION

**DANGER! EXTREMELY FLAMMABLE! VAPORS MAY CAUSE FLASH FIRE. DO NOT USE NEAR FIRE OR FLAME!**

#### Specific Technical Data:

- A. Base: rubber-solvent
- B. Color: clear amber
- C. Flammability – **EXTREMELY FLAMMABLE**
- D. Coverage: 280-300 sq. ft. per gallon
- E. Shelf-Life – One year from date of manufacture in an unopened container

This product is an extremely flammable mixture. Adequate ventilation is essential to prevent build up of vapors to an explosive concentration. Use only with positive fresh air cross-ventilation. Use explosive proof fans, motors and other equipment. Prevent prolonged or repeated breathing of vapors or mist. Vapors are heavier than air and can collect in low areas, such as basements. Do not use in these areas; unless they can be thoroughly ventilated before, during and after installations. Do not store or use near heat, flames or sparks of any type. Keep container closed when not in use. Use appropriate safety equipment – splash goggles, gloves and where high vapor concentrations exist, vapor respirators. KEEP OUT OF REACH OF CHILDREN AND PETS.

**MATERIAL IS SOLD FOR PROFESSIONAL USE ONLY.**

**Sale to consumer is a Violation of Federal Law.**

**UN1133, Adhesive, Class 3, PGII, Limited Quantity**

**NPCA HMIS**  
**H=2 F=3 PH=1**

May 16, 2019 [replaces November 26, 2007]1

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name (As Labeled)	<b>AAT-105</b>
Chemical Name:	Hexane / Acetone / Toluene
Uses:	Flammable Brush Grade Contact Adhesive.
UN Number:	UN 1133
UN Dangerous /goods Class/Subsidiary Risk:	Hazard Class 3 Packing Group II
Manufacturer's Name:	<b>Advanced Adhesive Technologies</b>
Address:	424 S Spencer Street Dalton, GA 30721
Emergency Phone:	(800) 424-9300 ( <b>CHEMTREC</b> )
Business Phone:	(800)228-4583
Date of Preparation:	10/8/2003
Date of last revision:	9/16/2021

## SECTION 2 HAZARD IDENTIFICATION

**OSHA Hazards**

Flammable liquids, Target Organs Effect, Irritant, Teratogen.

**Target Organs**

Peripheral liquids, Kidney, Testes

**GHS Classification**

Flammable liquids (Category 2)  
 Skin irritation (Category 3)  
 Eye irritation (Category 2B)  
 Reproduction toxicity (Category 3)  
 Specific target organ toxicity - single exposure (Category 3)  
 Aspiration hazard (Category 3)  
 Acute aquatic toxicity (Category 3)



Signal Word

**DANGER**

**Hazard Statement's)**

H225	Highly Flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H315 + H320	Causes skin and eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H401	Toxic to aquatic life.

**Precautionary Statement's)**

P210 Keep away from heat/sparks/open flames/hot surfaces- **NO Smoking**  
 P281 Use personal protective equipment as required.  
 p301 + P310 If Swallowed: Immediately call a POISON CENTER or doctor.  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P305+P-351+P-338 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P260 Do not breath dust/fume/gas/mist/vapors/spray.

**HMIS Classification**

**Health Hazard:** 2  
**Chronic Health Hazard:** \*  
**Flammability:** 3  
**Physical Hazard:** 0

**NFPA Rating**

**Health Hazard:** 2  
**Fire:** 3  
**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.  
**Skin:** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes:** Causes eye irritation.  
**Ingestion:** May be harmful if swallowed.

<b>SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS</b>
---

ITEM	CHEMICAL NAME	CAS NO.	EC-No.	WT % RANGE
1	Acetone	67-64-1	200-662-2	27-35 %
2	Hexane	110-54-3	203-777-6	32-40 %
3	Toluene	108-88-3	203-625-9	10-19 %

<b>SECTION 4 - FIRST AID MEASURES</b>
---------------------------------------

Consult a physician. Show this safety data sheet to the doctor in attendance.

**EYE CONTACT:** Flush with large quantities of water for at least 15 minutes or until irritation subsides. Contact a Physician.

**SKIN CONTACT:** Wash with soap and water, Consult a physician.

**INHALATION:** Move to fresh air. If not breathing ,give artificial respiration. If breathing is difficult, give oxygen. Contact a Physician immediately.

**INGESTION:** Do not induce vomiting. If irritation or complications arise, contact a Physician or Regional Poison Control Center immediately.

## SECTION 5 - FIRE FIGHTING MEASURES

**Conditions of Flammability:**

Flammable in the presents of a source of ignition when the temperature is above the flash point keep away from heat/sparks/open flam/hot surface. **NO Smoking!**

**Suitable extinguishing media:**

Use water spray, Dry chemical, Carbon dioxide(CO2), Water spray, Alcohol-resistant foam.

**Hazardous combustion products:**

Hazardous decomposition products form under fire conditions-Carbon oxides.

**Precautions for fire-fighting:**

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point.

Wear full fire fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Further Information:**

Use water spray to cool unopened containers.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Use personal protectective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personal to safe areas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and clean up:**

Contain spillage, and the collect with an electrically protected vacuum cleaner or wet-brushing and place in container for disposal according to local regulations.

## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:**

HANDLING INFORMATION: KEEP OUT OF THE REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

**Storage information:** Store away from caustics and oxidizers. Keep away form heat, sparks, and flames. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Use and store containers in a well ventilated area.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

SDS Components	CAS-No.	Value	Exposure Limits	Governing Body
Acetone	67-64-1	TWA	500 ppm	USA, ACGIH (TLV)
Hexane	110-54-3	TWA	50 ppm	USA, ACGIH (TLV)
Toluene	108-88-3	TWA	20 ppm	USA, ACGIH (TLV)
Acetone	67-64-1	STEL	750 ppm	USA, ACGIH (TLV)
Acetone	67-64-1	STEL	1000 ppm	USA, OSHA - Table Z-1 Limits
Acetone	67-64-1	TWA	1000 ppm	USA, OSHA - Table Z-1 Limits
Acetone	67-64-1	TWA	750 ppm	USA, OSHA - Table Z-1 Limits
Hexane	110-54-3	TWA	50 ppm	USA, OSHA - Table Z-1 Limits
Toluene	108-88-3	TWA	100 ppm	USA, OSHA - Table Z-1 Limits
Toluene	108-88-3	STEL	150 ppm	USA, OSHA - Table Z-1 Limits
Hexane	110-54-3	TWA	500 ppm	USA, OEL(OSHA)-Table Z-1 Limits
Toluene	108-88-3	TWA	200 ppm	USA, Occupational Exposure Limits-Table Z-2
Acetone	67-64-1	TWA	250 ppm	USA, NIOSH Recommended Exposure Limits.
Hexane	110-54-3	TWA	50 ppm	USA, NIOSH Recommended Exposure Limits.

**Engineering Controls:**

Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposures below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, ect.) for vapors before entering.

**Respiratory Protection:**

When risk assessment shows air-purifying respirators are appropriate use full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:**

Handel with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye Protection:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

**Skin and Body Protection:**

Impervious clothing, Flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Liquid, Amber to Clear

**Odor:** Aliphatic

**PH:** Not Applicable

**Boiling Point:** 68.89 C 156.0 Deg. F

**Flash Point:** -26.00 Deg. C (-14.8 Deg. F) Closed cup  
**Ignition Temperature:** 233.9 C (453.0 F)  
**Evaporation Rate:** 15.8 n-Butyl Acetate  
**Upper Explosion Limits:** 7.7 %  
**Lower Explosion Limits:** 1.2 %  
**Vapor Pressure:** 341.3 nPa (140.0 mmHg) at 37.7 Deg. C (99.9 Deg F)  
**Vapor Density:** 0.659 g/cm<sup>3</sup> at 25 Deg. C (77 Deg. F)  
**Water Solubility:** Miscible  
**Partition Coefficients:** N/A

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:**

Vapors may form explosive mixture with air.

**Conditions to Avoid:**

Heat, Flames and sparks, Extremes of temperature and direct sunlight.

**Materials to Avoid:**

Oxidizing agents

**Hazardous Decomposition Products:**

Hazardous Decomposition Products formed under fire conditions,-Carbon Oxides  
Other decomposition products- no data available

## SECTION 11 - TOXICOLOGICAL PROPERTIES

**Acute Toxicity:**

**Oral LD50**

LD 50 Oral- rat-25,000 mg/kg

Remarks: Behavioral: Altered sleep time (including change in righting reflex) Behavioral: Tremor

**Inhalation LC50**

LC 50 Inhalation-rat-4 h-48,000 ppm

**Dermal LD50**

No data available.

**Other information on Acute Toxicity:**

No data available

**Skin Corrosion/Irritation:**

No data available

**Serious Eye Damage/Eye Irritation:**

Eyes - rabbit - Mild eye irritation.

**Respiratory or Skin Sensitization:**

No data available

**Germ Cell Mutagenicity:**

No data available

**Carcinogenicity**

Carcinogenicity - rat - inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic Effects: Testicular tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as problem, possible or confirmed human carcinogen.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as problem, possible or confirmed human carcinogen.

NPT: No component of this product present at levels greater than or equal to 0.1% is identified as problem, possible or confirmed human carcinogen.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as problem, possible or confirmed human carcinogen.

**Reproductive Toxicity:**

Overexposure may cause reproductive disorders based on tests with laboratory animals. Suspected human reproductive toxicant Suspected of damaging fertility.

**Teratogenicity:**

**Specific Target Organs Toxicity- Single Exposure (GHS)**

May cause drowsiness or dizziness.

**Specific target organ toxicity - single exposure (GHS)**

Ingestion - May cause damage to organs through prolonged exposure - Nervous system.

**Aspiration Hazard:**

May be fatal if swallowed and enters airways.

**Potential Health Effects:**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

**Ingestion:** May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs and Symptoms of Exposure:**

Prolonged or repeated contact with skin may cause: defatting, Dermatitis, Contact with eyes can cause: Redness, Blurred vision, Provokes tears. Effects due to ingestion may include: Gastrointestinal discomfort, Central nervous system depression, Lung irritation, chest pain, pulmonary edema, giddiness, slow reaction time, slurred speech, Headache, Dizziness, Drowsiness.

**Synergistic Effects:** No data available

**Additional Information:**

RTECS: MN9275000

**SECTION 12 - ECOLOGICAL INFORMATION**

**Toxicity:**

Toxicity to Fish LC50 - Pimephales promelas (Flathead Minnow) - 2.5 mg/l - 96 h

Toxicity to Daphnia LC50 - Daphnia magna (Water flea) - 3,878 mg/l - 48 h  
and other aquatic invertebrates.

Toxicity to Algeae EC50 - Chlorella Vulgaris (Fresh water Algeae) - 12,840.00 mg/l - 3 h  
EC50 Skeletoma - 0.30 mg/l - 8h

**Persistence and Degradability:**

No data available

**Bioaccumulative Potential:**

No data available

**Mobility in Soil:**

No data available

**PBT and vPvB Assessment:**

No data available

**Other Adverse Effects:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Product:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Discarded material should be incinerated at a permitted facility. Liquids cannot be disposed of in a landfill. Do not reuse empty containers. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

**SECTION 14 - TRANSPORTATION INFORMATION**

**DOT (US):**

DOT PROPER SHIPPING NAME: UN1133, Adhesive, containing a flammable liquid, Class 3, PG II

DOT HAZARD Class: 3

DOT UN/NA NUMBER: UN 1133 Packing Group: II

Reportable Quantity (RQ): 5000 Lbs.

Marine pollutant: No

Poison Inhalation Hazard: No



**IMDG:**

UN number: 1133 Class: 3 Packing Group: II  
 Proper shipping name: Adhesive , containing a flammable liquids  
 Marine pollutant: No

**IATA:**

UN number 1133 Class: 3 Packing Group: II  
 Proper shipping name: Adhesive , containing a flammable liquids

**DANGER : Highly Flammable Liquid and Vapor****SECTION 15 - REGULATORY INFORMATION****U.S Federal regulations:** United States inventory (TSCA ): All components are listed or exempted**OSHA Hazards**

Flammable liquids, Target Organs Effect, Irritant, Teratogen.

**SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302

**SARA 313 Components:**

The following components are subject to reporting levels established by SARA Title III, Section 313.

n-Hexane CAS # 110-54-3

Toluene CAS # 108-88-3

**SARA 311/312 Hazard :**

Fire Hazard, Acute Health Hazard, Chronic Health hazard.

**Massachusetts Right to Know Components:**

	CAS #	Revision Date
Hexane	110-54-3	8/16/2021
Acetone	67-64-1	
Toluene	108-88-3	

**Pennsylvania Right to Know Components:**

	CAS #	Revision Date
Hexane	110-54-3	8/16/2021
Acetone	67-64-1	
Toluene	108-88-3	

**New Jersey Right to Know Components:**

	CAS #	Revision Date
Hexane	110-54-3	8/16/2021
Acetone	67-64-1	
Toluene	108-88-3	

**California Prop. 65 Components:**



WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.  
Toluene CAS #108-88-3 / n-Hexane CAS #110-54-3  
For more information, go to "[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)."

<b>SECTION 16 - OTHER INFORMATION</b>
---------------------------------------

HMIS RATINGS - HEALTH: 2    FLAMMABILITY: 3    REACTIVITY: 0

REASON FOR REVISION: To Correct MSDS Number/Change OSHA Hazcom Information

HAP less water, less exempt solvent: 4.81 # Per Gal.

VOC less water, less exempt solvent: 4.81 # Per Gal.

**Product Shelf Life: 12 Months from the date of Mfg. in an unopened sealed container.**

This data is offered in good faith as typical value and not as a product specification. No warranty either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

---

< END OF SDS >