

Material Safety Data Sheet

Prepared 1/01/10

Associated Technologies – AT-6030 (Component A & B) – Acrylic Adhesive

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AT-630 (Parts A & B)
Associated Technologies
694 Higganum Road
Durham, CT 06422

Product Type: Acrylics
Information Telephone 860-788-3380
Emergency Telephone # (800) 255-3924 (CHEM•TEL)
Outside North America #: (813) 248-0585 (Call Collect)

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

None of the ingredients below are listed as carcinogens by IARC, NTP or OSHA

CHEMICAL NAME – Component A (Resin 90%)	CAS #	Approx %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
Synthetic Polymer Resin	NON/HAZ					
Methyl Methacrylate Monomer, Stabilized	80-62-6	50-60*	100 ppm		100 ppm	
Methacrylic Acid	79-41-4	1-10	20 ppm(skin)	N/E	N/E	N/E

CHEMICAL NAME - Component B (Activator)	CAS #	Approx %	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	OSHA-STEL
Synthetic Polymer Resin	NON/HAZ					
Blend mixture of Benzoate Esters	NON/HAZ					
55% Benzoyl Peroxide	94-36-0	10-25*	5MG-M3		5MG/M3	

All of the constituents of AT-6030 adhesive products are listed on the TSCA inventory of chemical substances maintained by the US EPA and the Canadian Domestic Substances List (DSL), or are exempt there from *Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.

SECTION 3 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health	Environmental	Physical
Acute Toxicity: Category 4	Acute Toxicity: Category III	Flammable Liquid: Category 2
Skin Irritation: Category 3	Chronic Toxicity: Category IV	
Skin Sensitization: YES		
Eye: Category 2B		

WHMIS CLASSIFICATION: CLASS B, DIVISION 2
OR CONTROLLED PRODUCT CLASS D, DIVISION 2B

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
Highly flammable liquid and vapor May cause irritation/allergic skin reaction	Do not breathe vapor Keep container closed Use in well-ventilated area

SECTION 4 – FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. **HMIS NFPA** 0-Minimal
Unsuitable Extinguishing Media: Water spray or stream. **Health** 2 2 1-Slight
Exposure Hazards: Inhalation and dermal contact **Flammability** 3 3 2-Moderate
Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride **Reactivity** 2 2 3-Serious
hydrocarbons, acrid smoke and gases. 4-Severe
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame. Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8).
Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up: Contain spill with sand or other inert adsorbent or absorbent material. Use non-sparking tools. Transfer to a closable vessel (Metal or polyethylene [PE])

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid breathing of vapor; avoid contact with eyes, skin and clothing.
Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.
Do not eat, drink or smoke while handling.
Storage: Store in ventilated room or shade and away from direct sunlight. Keep container tightly closed when not in use.
Keep away from ignition sources and incompatible materials. Follow all precautionary information on container label and product bulletins.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Methyl Methacrylate Mon	50 ppm	100 ppm	100 ppm	N/E
Methacrylic Acid	20 ppm	N.E	20 ppm Skin	N/E
Styrene	50 ppm	100 ppm	100 ppm	200 ppm
Benzoyl Peroxide	5 mg/ m3		5 mg/ m3	

Engineering Controls: Use local exhaust as needed.
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.
Personal Protective Equipment (PPE):
Eye Protection: Avoid contact with eyes; wear splash proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields,
Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.
Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.
Respiratory Protection: Use in a well-ventilated room. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: "A" - Off-white, viscous liquid, "B" - White or gray viscous liquid
Odor: "A" - Strong Solvent Odor, "B" - Mild
pH: Not Applicable
Boiling Point: "A" -100.5°C (212.9°F) Based on first boiling component: MMA
"B" - Not Established
Flash Point: "A" - 11.5°C (52.7°F) T.C.C. based on MMA, "B" - 84°C (184°F) for BPO
Specific Gravity: "A" - 1.010, "B" - 1.130 @23°C (73°F)
Solubility: "A" - Slight in Water (MMA, MAA), "B" - Insoluble in Water
Auto-ignition Temperature: "A" - 421°C (789.8°F): MMA, "B" - Not Established "B" - N/E

Decomposition Temperature: "A" - Not Applicable, "B" - 110°C (230°F) **Vapor Density:** "A" - > 3.0 (Air = 1), "B" - N/E
VOC Content : "A" - < 50 g/l mixed, "B" - None
Odor Threshold: "A" - 0.75 ppm: MMA
Active Oxygen Content: "B"- <1 %
Evaporation Rate: "A" - > 1.0, "B" - <1 (BUAC = 1)
Flammability: "A" - Category 2, "B" - Category 4
Flammability Limits: LEL: "A" - 1.6% based on MMA
UEL: "A" - 12.5% based on MMA
LEL & UEL: "B" - Not Established
Vapor Pressure: "A" - 28 mm Hg @ 20°C (68°F): MMA

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable, unless heated
Hazardous decomposition products: None in normal use. Oxides of carbon, oxides of nitrogen, hydrogen chloride, hydrocarbons, acrid smoke and gases upon combustion.
Conditions to avoid: Keep away from direct sunlight, heat, sparks, open flame and other ignition sources.
Incompatible Materials: Reducing and oxidizing agents and metal contaminants

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact
Acute symptoms and effects:
Inhalation: Severe overexposure may result in nausea, dizziness, and headache. Can cause drowsiness, irritation of eyes and nasal passages.
Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.
Chronic (long-term) effects: None known to humans

Toxicity:	LD50	LC50
Methyl Methacrylate Monomer (MMA)	Oral: 7900 mg/kg (rat),	Dermal: >35000 mg/kg (rabbit) Inhalation: 3 hrs. 7093 PPM (rat)
Methacrylic Acid	Oral: 1600 mg/kg (rat),	Dermal: 500 mg/kg (rabbit) Inhalation: 6.7 mg/l (rat)
Styrene	Oral: 2650 mg/kg (rat)	Inhalation: 12000 PPM (rat)
Benzoyl Peroxide	Oral: 6400 mg/kg (rat)	Oral: 2 mg/l 96 hours (guppy)

<u>Reproductive Effects</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>	<u>Embryotoxicity</u>	<u>Sensitization to Product</u>	<u>Synergistic Products</u>
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

SECTION 12 – Ecological Information

Ecotoxicity: None known
Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of <50 g/l
Degradability: Not Established
Bioaccumulation: Not Established

SECTION 13 – Disposal Considerations

Follow local and national regulations. Consult local disposal expert.

SECTION 14 – TRANSPORT INFORMATION

DOT(49 CFR 172)

PROPER SHIPPING NAME: Adhesives / Consumer Commodity
IDENTIFICATION NUMBER: UN 1133
HAZARD CLASS: 3
PACKING GROUP: II
LABEL REQUIRED: Class 3 Flammable Liquid
CLASS/DIVISION: ORM-D - 3

Exception For Ground Shipping**DOT Limited Quantity:** Up to 5L per inner packaging, 30 kg gross weight per package.**Identification Number:** UN 1133**Consumer Commodity:** Depending on packaging, these quantities may qualify under DOT as "ORM-D" .**SECTION 15 – Regulatory Information****Precautionary Label Information:** Highly Flammable,

Harmful Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Korea ECL/TCCL, Japan MITI (ENCS)

Symbols: F, Xn AICS,**Risk Phrases:** R-11 Highly Flammable

R-20 Harmful by inhalation

R-21 Harmful if contact with skin

R-22 Harmful if swallowed

R-36/37/38 Irritating to eyes, respiratory system and skin

R-43 May cause sensitization by skin contact.

Safety Phrases: S-2 Keep out of reach of children

S-7 Keep container tightly closed when not in use

S-9 Keep container in a well-ventilated place

S-15/16 Keep away from heat and sources of
ignition. No smoking

S-23 Do not breathe vapor

S-24/25 Avoid contact with skin and eyes.

S-29 Do not empty into drains

S-37 Wear suitable gloves

S-51 Use only in well ventilated areas

SECTION 16 – Other Information**Specification Information:**

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).

Training necessary:

Yes, training in practices and procedures contained in product literature.

Reissue date:

01/01/10

Intended Use of Product:

2-Component Adhesive for bonding thermoplastics, metals and other composites

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