

GHS SAFETY DATA SHEET

Associated Technologies AT-6030 Resin

Date Revised: DEC 2014

Supersedes: FEB 2013

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Associated Technologies AT-6030 Resin
PRODUCT USE: Component "A" of a 2-Component Adhesive for Thermoset Composites, Plastics and other substrates
SUPPLIER: Associated Technologies
 57 Ozick Drive – Suite G
 Durham, CT 06422
 Phone: 860-788-3380
EMERGENCY: CHEM•TEL (800) 255-3924 Outside North America #: (813) 248-0585 (Call Collect)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

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

GHS LABEL:



Signal Word:
Danger

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

Hazard Statements

Highly flammable liquid and vapor May cause irritation/allergic skin reaction

Precautionary Statements

Do not breathe vapor Keep container closed Use in well-ventilated area

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS#	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Methyl Methacrylate Monomer (MMA),* Stabilized	80-62-6	201-297-1	05-2116297731-37-0000	55 - 65
Methacrylic Acid (MAA)	79-41-4	201-204-4	05-2116297727-26-0000	< 10
Styrene*	100-42-5	202-851-5	05-2116297733-33-0000	< 4

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.
 *Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).
 # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
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 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
Unsuitable Extinguishing Media: Water spray or stream.
Exposure Hazards: Inhalation and dermal contact
Combustion Products: Oxides of carbon, oxides of nitrogen, hydrocarbons, hydrocarbons, acrid smoke and gases.
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks.

	HMIS	NFPA	
Health	2	2	1-Slight
Flammability	3	3	2-Moderate
Reactivity	2	2	3-Serious 4-Severe

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 - PRECAUTIONS TO CONTROL EXPOSURE / 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 skin	N/E	20 ppm skin	N/E
	Styrene	50 ppm	100 ppm	100 ppm	200 ppm

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 are approached, use respiratory protection equipment.

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Associated Technologies AT-6030 Resin

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Supersedes: FEB 2013

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white, viscous liquid	Odor Threshold:	0.75 ppm: MMA
Odor:	Strong Solvent Odor	Evaporation Rate:	> 1.0 (BUAC = 1)
pH:	Not Applicable	Flammability:	Category 2
Boiling Point:	100.5°C (212.9°F) Based on first boiling component: MMA	Flammability Limits:	LEL: 1.6% based on MMA
Flash Point:	11.5°C (52.7°F) T.C.C. based on MMA		UEL: 12.5% based on MMA
Specific Gravity:	1.010 @23°C (73°F)	Vapor Pressure:	28 mm Hg @ 20°C (68°F): MMA
Solubility:	Slight in Water (MMA, MAA)	Vapor Density:	> 3.0 (Air = 1)
Auto-ignition Temperature:	421°C (789.8°F): MMA	VOC Content :	≤50 g/l mixed
Decomposition Temperature:	Not Applicable		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable, unless heated
Hazardous decomposition products:	None in normal use. Oxides of carbon, oxides of nitrogen, hydrocarbons, acrid smoke and gases.
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)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
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 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult local disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Adhesives
Hazard Class:	3
Secondary Risk:	None
Identification Number:	UN 1133
Packing Group:	PG II
Label Required:	Class 3 Flammable Liquid
Marine Pollutant:	NO

EXCEPTION for Ground Shipping
DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.
Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D".

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
UN NUMBER/PACKING GROUP:	UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Highly Flammable, Harmful	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Symbols:	F, Xn		
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 / reason for reissue:	12/17/2014 Updated GHS Standard Format
Intended Use of Product:	Structural adhesive bonding

DISCLAIMER: The information contained in this data sheet is empirical or based on laboratory testing and is not intended for design purposes. Associated Technologies makes no representations or warranties of any kind concerning these data. Associated Technologies assumes no responsibility or liability for results obtained by the end-user where Associated Technologies has no control over variables of storage, substrates, surface preparation, temperature, handling and application. End-users are solely responsible for making their own tests and evaluation of this product prior to use in their manufacturing process to determine if this product is suitable for the application.

Associated Technologies
 57 Ozick Drive - Suite G - Durham, CT 06422
 Phone 860 - 788 - 3380 - Fax 603 895 6236
www.weldmountsystem.com - info@weldmountsystem.com

GHS SAFETY DATA SHEET

Associated Technologies AT-6030 Activator

Date Revised: DEC 2014

Supersedes: FEB 2013

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Associated Technologies AT-6030 Activator
PRODUCT USE: Component "B" of a 2-Component Adhesive for Thermoset Composites, Plastics and other substrates
SUPPLIER: Associated Technologies
57 Ozick Drive – Suite G
Durham, CT 06422
Phone: 860-788-3380

EMERGENCY: CHEM•TEL (800) 255-3924
Outside North America #: (813) 248-0585 (Call Collect)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Physical	
Acute Toxicity:	Category 5	Acute Toxicity:	None	Flammable Liquid:	Category 4
Skin Irritation:	None	Chronic Toxicity:	None		
Skin Sensitization:	None				
Eye:	Category 2B				

GHS LABEL:**WHMIS CLASSIFICATION:** Not Regulated

Hazard Statements	Precautionary Statements
May cause irritation/allergic skin reaction	Do not breathe vapor Keep container closed Use in well-ventilated area

	CAS#	EINECS#	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Benzoyl Peroxide (BPO)*	94-36-0	202-327-6	05-2116297715-31-0000	<15%

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing. *Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes. If irritation develops, 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 - FIREFIGHTING 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	1	1	1-Slight
Exposure Hazards:	Inhalation and skin contact	Flammability	1	1	2-Moderate
Combustion Products:	Oxides of carbon, oxides of nitrogen	Reactivity	1	1	3-Serious
Protection for Firefighters:	Self-contained breathing apparatus or full-face positive pressure air-supply masks				4-Severe

Personal precautions: Keep away from heat, sparks and open flame.
Provide sufficient ventilation, 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: Clean up with sand or other inert absorbent material. Transfer to a suitable closable container

Handling: Avoid breathing of vapor; avoid contact with eyes, skin and clothing.
Keep away from ignition sources, 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 and temperatures above 29°C (85°F). 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 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
	Benzoyl Peroxide	5 mg/m ³		5 mg/m ³	

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. Nitrile or neoprene gloves should be used for frequent immersion.
Use of latex/nitrile surgical 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.

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Associated Technologies AT-6030 Activator

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black, viscous liquid	Active Oxygen Content:	<1 %
Odor:	Mild	Evaporation Rate:	<1
pH:	Not Applicable	Flammability:	Category 4
Boiling Point:	Not Established	Flammability Limits:	LEL: Not Established
Flash Point:	84°C (184°F) for BPO		UEL: Not Established
Specific Gravity:	1.130 @23°C (73°F)	Vapor Pressure:	Not Established
Solubility:	Insoluble in Water	Vapor Density:	Not Established
Auto-ignition Temperature:	Not Established	VOC Content:	None
Decomposition Temperature:	110°C (230°F)		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous decomposition products:	None in normal use. Oxides of carbon.
Conditions to avoid:	Keep away from direct sunlight, heat, sparks, open flame and other ignition sources.
Incompatible Materials:	Strong acids and alkalis, reducing agents and metal contaminants

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation:	May cause irritation of nose, throat and lungs
Eye Contact:	May cause eye irritation
Skin Contact:	Prolonged exposure may cause moderate skin irritation
Ingestion:	May cause nausea, vomiting and diarrhea

Chronic (long-term) effects: None known to humans

Toxicity:

	LD₅₀	LC₅₀
Benzoyl Peroxide	Oral: 6400 mg/kg (rat)	Oral: 2 mg/l 96 hours (guppy)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
None	None	None	Not Established	None	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None known
Mobility:	Not Established
Degradability:	Not Established
Bioaccumulation:	Not Established

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult local disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated as a hazardous material
Secondary Risk:	None
Identification Number:	None
Packing Group:	Not Regulated
Label Required:	Not Regulated
Marine Pollutant:	NO

TDG INFORMATION	
TDG CLASS:	Not Regulated
SHIPPING NAME:	Not Regulated
UN NUMBER/PACKING GROUP:	Not Regulated

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Irritant	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Symbols:	Xi		
Risk Phrases:	R-36/37/38 Irritating to eyes, respiratory system and skin.		
Safety Phrases:	S-2/3 Keep in a cool place, out of reach of children. S-7 Keep container tightly closed when not in use. S-15/16 Keep away from heat and sources of ignition. No smoking. S-24/25 Avoid contact with skin and eyes. S-35 Dispose of material and container in a safe way.	S-29 Do not empty into drains, storm drains or watercourses. S-37/39 Wear suitable gloves and eye protection. S-45 If seeking medical advice show physician label or SDS. 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 / reason for reissue:	12/18/2014 Updated GHS Standard Format
Intended Use of Product:	Structural adhesive bonding

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