Associated Technologies - AT-4020 (Component A) - Acrylic Adhesive

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AT-4020 (COMPONENT A) Product Type: Acrylics

Associated Technologies Information Telephone 860-788-3380

694 Higganum Road Emergency Telephone # (800) 255-3924 (CHEM●TEL)
Durham, CT 06422 Outside North America #: (813) 248-0585 (Call Collect)

SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	<u>%</u>	ACGIH TLV	OSHA PEL	<u>OTHER</u>
Methyl methacrylate 80-62-6	30 - 60	100 ppm STEL 50 ppm TWA	100 ppm TWA 410 mg/m³ TWA	50 ppm
Polyethylene based rubber Proprietary	10-30	None	None	None
Hydroxyalkyl methacrylate 868-77-9	10-30	None	None	3 ppm (ceiling)
Methacrylic acid 79-41-4	1-5	20 ppm TWA	None	None
Benzenecarboperoxoic acid , 1, 1- Dimethylethyl ester 614-45-9	1-5	None	None	None
Talc 14807-96-6	0.1-1	2 mg/m³ TWA respirable fraction, particulate matter containing no asbestos and <1% crystalline silica	= 20 mppcf TWA	50 ppm
Carbon tetrachloride 56-23-5	0.1-1	10 ppm STEL 5ppm TWA (skin)	10 ppm TWA 25 ppm Ceiling	None

<u>SECTION 3 – HAZARDS IDENTIFICATION</u>

EMERGENCY OVERVIEW

Physical State: Paste HMIS: Health: 2*
Color: White Opaque Flammability: 3
Odor: Sharp Physical Hazard: 1

Personal Protection: See Section 8

WARNING: Flammable Liquid And Vapor. Causes Eye, Skin And Respiratory Tract Irritation

May Cause Allergic Skin Reaction. May Be Harmful If Swallowed

Relevant Routes Of Exposure: Inhalation, Skin, Eyes, Ingestion

Potential Health Effects

Inhalation Vapors May Cause Headaches, Nausea, Dizziness and Respiratory Track Irritation.

Skin Contact: Irritating to Skin. May Cause Allergic Skin Reaction

Eye Contact Vapors May Irritate Eyes. Contact With Eyes Will Cause Irritation.

Ingestion May Be Harmful If Swallowed. Ingestion Causes Irritation and Effects Similar to

Inhalation

Existing Conditions Aggravated Eye, Skin And Respiratory Disorders

By Exposure See Section 11 For Additional Toxicological Information

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove To Fresh Air, If Symptoms Develop And Persist, Get Medical Attention

Skin Contact Wash With Soap And Water. Remove Contaminated Clothing And Shoes. Wash Clothing Before

Reuse. Get Medical Attention If Symptoms Occur.

Eye Contact Flush With Copious Amounts Of Water, Preferably, Lukewarm Water For At Least 15 Minutes,

Holding Eyelids Open All The Time. Get Medical Attention

Ingestion: Do Not Induce Vomiting. Keep Individual Calm. Obtain Medical Attention

<u>SECTION 5 – FIRE FIGHTING MEASURES</u>

Flash Point: 14° C (58° F) Setaflash Closed Cup

Autoignition Temperature: Not Available Flammable/Explosive Limits – Lower % Not Available Flammable/Explosive Limits – Upper % Not Available

Extinguishing Media: Foam, Dry Chemical Or Carbon Dioxide

Special Fire Fighting Procedures: Wear Self-Contained Breathing Apparatus and Full Protective Clothing,

Such as Turn-Out Gear.

Unusual Fire Or Explosion Hazards: Vapors May Accumulate In Low Or Confined Areas, Travel Considerable

Distance To Source Of Ignition And Flash Back

Hazardous Combustion Products: Oxides Of Carbon. Oxides Of Nitrogen. Oxides of Sulfur. Hydrogen

Cyanide. Hydrogen Chloride. Acids. Aldehydes. Alcohols. Toxic Fumes.

Acrid Smoke And Fumes. Irritating Organic Vapors

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Prevent Product For Entering Drains Or Open Waters

Clean-Up Methods: Remove All Ignition Sources. Ensure Adequate Ventilation. Soak Up With

Inert Absorbent. Store In A Closed Container Until Ready For Disposal

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid Contact With Eyes, Skin And Clothing. Avoid Breathing Vapor And Mist. Wash

Thoroughly After Handling. During Use And Until All Vapors Are Gone: Keep Area Ventilated – Do Not Smoke; Extinguish All Flames, Pilot Lights, And Heaters; Turn Off Stoves, Electrical Tools And Appliances, And Any Other Sources Of Ignition. Make Sure

Containers Are Properly Grounded Before Use Or Transfer Of Material.

Storage: Keep In A Cool, Well Ventilated Area Away From Heat, Sparks And Open Flame. Keep

Container Tightly Closed Until Ready For Use. For Safe Storage, Store At Or Below 32° F

Incompatible Products Refer To Section 10.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use Local Exhaust Ventilation To Maintain Airborne Concentrations Below Established

Exposure Limits

Respiratory Protection: Use NIOSH Approved Respirator If There Is Potential To Exceed Exposure Limit(s).

Skin Protection: Chemical Resistant, Impermeable Gloves. Nitrile Gloves. Eye/Face Protection Safety Goggles Or Safety Glasses With Side Shields

See Section 2 For Exposure Limits

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste

Color: White Opaque

Odor: Sharp

Vapor Pressure: 28 mmHg@ 20° C (68° F)

pH: Not Applicable

Boiling Point/Range: Greater Than 100° C (212° F)

Melting Point/Range: Not Available

Specific Gravity: 1.04

Vapor Density: Greater Than 1

Evaporation Rate: Faster Than Ether (Ether = 1)

Solubility In Water: Slight

Partition Coefficient (n-octanol/water)

VOC Content

Not Available

Not Available

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable Hazardous Polymerization: May Occur

Hazardous Decomposition Oxides Of Carbon. Oxides Of Nitrogen. Oxides of Sulfur. Hydrogen Cyanide. Hydrogen

Products: Chloride. Acids. Aldehydes. Alcohols. Carbon Tetrachloride. Styrene. Acrolein.

Acetophenone. Ethylbenzene. Cumene. 4-Vinyl Cyclohexene. Phenols. Irritating

Organic Vapors, Toxic Fumes, Smoke,

Oxidizing Agents. Reducing Agents. Acids. Bases. Incompatibility::

Conditions To Avoid: See "Handling And Storage" (Section 7) and "Incompatibility" (Section 10). Do not Mix

In Batches Greater Than 100 Grams (0.22 pounds) Unless You Plan To Use

Immediately

SECTION 11 - TOXICOLOGICAL INFORMATION

Carcinogen Status:

Hazardous Components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methyl methacrylate 80-62-6	No	No	No
Polyethylene based rubber Proprietary	No	No	No
Hydroxyalkyl methacrylate 868-77-9	No	No	No
Methacrylic acid 79-41-4	No	No	No
Benzenecarboperoxoic acid 1, 1- Dimethylethyl ester 614-45-9	No	No	No
Talc 14807-96-6	No	No	No
Carbon tetrachloride 56-23-5	Suspect Carcinogen	Group 2B	Yes

Literature Referenced Target Organs & Other Health Effects:

Hazardous Components Health Effects / Target Organs

Methyl methacrylate Allergen, Irritant, Kidney, Liver, Nervous System, Respiratory, Mutagen

80-62-6

Polyethylene based rubber No Target Organs

Proprietary

Hydroxyalkyl methacrylate Allergen, Irritant

868-77-9

Methacrylic acid Allergen, Corrosive, Irritant

79-41-4

Benzenecarboperoxoic acid 1, 1-Central Nervous System, Irritant, Mutagen

Dimethylethyl ester

614-45-9

Talc Some Evidence of Carcinogenicity, Lung, Irritant

14807-96-6

Carbon Tetrachloride Cardiac, Central Nervous System, Irritant, Kidney, Liver, Some Evidence of

56-23-5 Carcinogenicity.

SECTION 12 – Ecological Information

Ecological Information: None Available

SECTION 13 – Disposal Considerations

Recommended Disposal Method: Dispose Of According To Federal, State, And Local Governmental Regulations

D001: Ignitable. D019: Carbon Tetrachloride EPA Hazardous Waste Number::

SECTION 14 – TRANSPORT INFORMATION

US DOT Transportation Ground (49 CFR)

Proper Shipping Name: Adhesives

Hazard Class Or Division 3

Identification Number: UN 1133

Packing Group:

Exceptions: Consumer Commodity ORM-D (Not More Than 5 Liters)

Marine Pollutant: None

International Air Transportation: (ICAO/IATA):

Proper Shipping Name: Adhesives

Hazard Class Or Division 3

Identification Number: UN 1133

Packing Group:

Exceptions: May Qualify As consumer Commodity ID8000 (Not More Than 500 ML)

Water Transportation: (IMO/IMDG):

Proper Shipping Name: Adhesives

Hazard Class Or Division 3

Identification Number:UN 1133Packing Group:IIMarine PollutantNone

SECTION 15 – Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All Components Are Listed Or Are Exempt From Listing On The Toxic

Substances Control Act Inventory.

TSCA 12 (b) Export Notification: 4-Methoxyphenol (150-76-5)
CERCLA/SARA Section 302 EHS: None above reporting de minimus.

CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire.

CERCLA/SARA 313: This Product Contains The Following Toxic Chemicals Su

This Product Contains The Following Toxic Chemicals Subject To The Reporting Requirements Of Section 313 Of The Emergency Planning And Community Right To Know Act Of 1986 (40 CFR 372) Methyl Methacrylate

(CAS# 80-62-6). Carbon Tetrachloride (CAS# 56-23-5).

California Proposition 65: This Product Contains A Chemical Known In The State Of California To Cause

Cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All Components Are Listed On Or Are Exempt From Listing On The Domestic

Substances List.

WHMIS Hazard Class: B.2, D.2.A, D.2.B

SECTION 16 – Other Information

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Associated Technologies, LLC. Does not assume responsibility for any results obtained by persons over whose methods Associated Technologies, LLC has no control. It is the user's responsibility to determine the suitability of Associated Technologies, LLC products or any other production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in handling and use of any Associated Technologies, LLC's products. In light of the foregoing, Associated Technologies, LLC. Specifically disclaims all warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Associated Technologies, LLC's products. Associated Technologies further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Associated Technologies – AT-4020 (Component B) – Acrylic Adhesive

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AT-4020 (COMPONENT B) Product Type: Acrylics

Associated Technologies Information Telephone 860-788-3380

694 Higganum Road Emergency Telephone # (800) 255-3924 (CHEM●TEL)
Durham, CT 06422 Outside North America #: (813) 248-0585 (Call Collect)

SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	<u>%</u>	ACGIH TLV	<u>OSHA PEL</u>	<u>OTHER</u>
Methyl methacrylate 80-62-6	60-100	100 ppm STEL 50 ppm TWA	100 ppm TWA 410 mg/m³ TWA	50 ppm
Aldehyde-amine Condensate Proprietary	1-5	None	None	None
Nepheline Syenite	10-30	None	None	None

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical State: Paste HMIS: Health: 2*
Color: Tan Opaque Flammability: 3
Odor: Strong Physical Hazard: 1

Personal Protection: See Section 8

WARNING: Flammable Liquid And Vapor. Causes Eye, Skin And Respiratory Tract Irritation

May Cause Allergic Skin Reaction. May Be harmful If Swallowed Relevant Routes Of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion

Potential Health Effects

Inhalation Vapors May Cause Headaches, Nausea, Dizziness and Respiratory Track Irritation.

Skin Contact: May Cause Skin Irritation. May Cause Allergic Skin Reaction.

Eye Contact May Cause Irritation.

Ingestion May Be Harmful If Swallowed.

Existing Conditions Aggravated Eye, Skin And Respiratory Disorders.

By Exposure See Section 11 For Additional Toxicological Information.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove To Fresh Air, If Symptoms Develop And Persist, Get Medical Attention

Skin Contact Wash With Soap And Water. Remove Contaminated Clothing And Shoes. Wash Clothing Before

Reuse. Get Medical Attention If Symptoms Occur.

Eye Contact Flush With Copious Amounts Of Water, Preferably, Lukewarm Water For At Least 15 Minutes,

Holding Eyelids Open All The Time. Get Medical Attention

Ingestion: Do Not Induce Vomiting. Keep Individual Calm. Obtain Medical Attention

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: 14° C (58° F) Setaflash Closed Cup

Autoignition Temperature: Not Available Flammable/Explosive Limits – Lower % Not Available Flammable/Explosive Limits – Upper % Not Available

Extinguishing Media: Foam, Dry Chemical Or Carbon Dioxide

Special Fire Fighting Procedures: Wear Self-Contained Breathing Apparatus And Full Protective Clothing,

Such As Turn-Out Gear

Unusual Fire Or Explosion Hazards: Vapors May Accumulate In Low Or Confined Areas, Travel Considerable

Distance To Source Of Ignition And Flash Back

Hazardous Combustion Products: Oxides Of Carbon. Oxides Of Nitrogen. Toxic Fumes. Acrid Smoke And

Fumes, Irritating Organic Vapors

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Prevent Product For Entering Drains Or Open Waters

Clean-Up Methods: Remove All Ignition Sources. Ensure Adequate Ventilation. Soak Up With

Inert Absorbent. Store In A Closed Container Until Ready For Disposal

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid Contact With Eyes, Skin And Clothing. Avoid Breathing Vapor And Mist. Wash

Thoroughly After Handling. During Use And Until All Vapors Are Gone: Keep Area Ventilated – Do Not Smoke; Extinguish All Flames, Pilot Lights, And Heaters; Turn Off Stoves, Electrical Tools And Appliances, And Any Other Sources Of Ignition. Make Sure

Containers Are Properly Grounded Before Use Or Transfer Of Material

Storage: Keep In A Cool, Well Ventilated Area Away From Heat, Sparks And Open Flame. Keep

Container Tightly Closed Until Ready For Use. For Safe Storage, Store At Or Below 32° F

Incompatible Products Refer To Section 10.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use Local Exhaust Ventilation To Maintain Airborne Concentrations Below Established

Exposure Limits

Respiratory Protection: Use NIOSH Approved Respirator If There Is Potential To Exceed Exposure Limit(s).

Skin Protection: Chemical Resistant, Impermeable Gloves. Nitrile Gloves. Eye/Face Protection Safety Goggles Or Safety Glasses With Side Shields

See Section 2 For Exposure Limits

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste Color: Tan O

Color: Tan Opaque
Odor: Strong
Vapor Pressure: Not Available
pH: Not Applicable

Boiling Point/Range: Greater Than 100° C (212° F)

Melting Point/Range: Not Available

Specific Gravity: 0.96

Vapor Density: Greater Than 1

Evaporation Rate: Faster Than Ether (Ether = 1)

Solubility In Water: Slight

Partition Coefficient (n-octanol/water)

Not Available

VOC Content

Not Available

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: May Occur

Hazardous Decomposition

Products:

Oxides Of Carbon. Oxides Of Nitrogen. Toxic Fumes. Irritating Organic Vapors. Smoke

Incompatibility:: Oxidizing Agents. Reducing Agents. Acids. Bases. Alkalis. Heat, sunlight, or UV Light. Conditions To Avoid: See "Handling And Storage" (Section 7) and "Incompatibility" (Section 10). Do not Mix

In Batches Greater Than 100 Grams (0.22 pounds) Unless You Plan To Use

Immediately

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogen Status:

Hazardous Components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methyl methacrylate 80-62-6	No	No	No
Aldehyde-amine Condensate Proprietary	No	No	No
Nepheline Syenite 37244-96-5	No	No	No

Literature Referenced Target Organs & Other Health Effects:

Hazardous Components Health Effects / Target Organs

Methyl methacrylate Allergen, Irritant, Kidney, Liver, Nervous System, Respiratory, Mutagen

80-62-6

Aldehyde-amine Condensate No Data

Proprietary

Nepheline Syenite No Target Organs

37244-96-5

SECTION 12 – Ecological Information

Ecological Information: None Available

SECTION 13 – Disposal Considerations

Recommended Disposal Method: Dispose Of According To Federal, State, And Local Governmental Regulations

EPA Hazardous Waste Number:: D001: Ignitable.

SECTION 14 – TRANSPORT INFORMATION

US DOT Transportation Ground (49 CFR)

Proper Shipping Name: Adhesives

Hazard Class Or Division 3

Identification Number: UN 1133

Packing Group:

Exceptions: Consumer Commodity ORM-D (Not More Than 5 Liter)

International Air Transportation: (ICAO/IATA):

Proper Shipping Name: Adhesives

Hazard Class Or Division 3

Identification Number: UN 1133

Packing Group:

Exceptions: May Qualify As consumer Commodity ID8000 (Not More Than 500 ML)

Water Transportation: (IMO/IMDG):

Proper Shipping Name: Adhesives

Hazard Class Or Division 3

Identification Number: UN 1133

Packing Group:

Exceptions: Dangerous Goods In Limited Quantities Of Class 3 (Not More Than 1 Liter)

Marine Pollutant None

SECTION 15 – Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All Components Are Listed Or Are Exempt From Listing On The Toxic

Substances Control Act Inventory

TSCA 12 (b) Export Notification: 4-Methoxyphenol (150-76-5)

CERCLA/SARA Section 302 EHS: None

CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire.

CERCLA/SARA 313: This Product Contains The Following Toxic Chemicals Subject To The Reporting Requirements Of Section 313 Of The Emergency Planning And

Community Right To Know Act Of 1986 (40 CFR 372). Methyl Methacrylate

(CAS# 80-62-6).

California Proposition 65: This Product Contains A Chemical Known In The State Of California To

Cause Cancer And Birth Defects Or Other Reproductive Harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All Components Are Listed On Or Are Exempt From Listing On The

Domestic Substances List.

WHMIS Hazard Class: B.2, D.2.B

SECTION 16 – Other Information

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Associated Technologies, LLC. Does not assume responsibility for any results obtained by persons over whose methods Associated Technologies, LLC has no control. It is the user's responsibility to determine the suitability of Associated Technologies, LLC products or any other production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in handling and use of any Associated Technologies, LLC's products. In light of the foregoing, Associated Technologies, LLC. Specifically disclaims all warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Associated Technologies, LLC's products. Associated Technologies further disclaims any liability for consequential or incidental damages of any kind, including lost profits.