

**Section 1: Identification****Product Identifiers**

Product name **Aron Alpha Type 221**  
Product number **AA432, 433, 471, 503, 571, 592, 830**

**Recommended use of & restrictions on use**  
Adhesive

**Emergency telephone number**  
**CHEMTREC (800) 424-9300**

**Manufacturer's Information**

Manufacturer's Name

Toagosei America Inc.  
1450 West Main Street  
West Jefferson, OH 43162

Telephone: (614) 879-9411

**Section 2 – Hazard Identification**

Classification of the substance or mixture

Classification according to 1910.1200:

<b>Flammable Liquids</b>	<b>Category 4</b>
<b>Serious Eye Damage/ Eye Irritation</b>	<b>Category 2A</b>
<b>Skin Sensitization</b>	<b>Category 1A</b>
<b>Reproductive Toxicity</b>	<b>Category 2</b>
<b>Specific Toxic Organ Toxicity-Single Exposure (STOT-SE)</b>	<b>Category 3 Respiratory Tract Irritation</b>

Label Elements



**Pictograms**

Health hazard

Exclamation mark

**Signal word**

Warning

**Hazard statements**

Combustible liquid  
Causes serious eye irritation  
Suspected of damaging fertility or the unborn child  
May cause an allergic skin reaction or respiratory irritation

**Precautionary statements***Prevention*

Avoid breathing vapors.  
Obtain special instructions before use.  
Wash hands thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Keep away from flames and hot surfaces. – No smoking.  
Wear protective gloves and eye protection.  
Contaminated work clothing must not be allowed out of the workplace.  
Do not handle until all safety precautions have been read and understood.

*Response*

In case of fire: Use dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If skin irritation or rash occurs: Get medical advice/attention.  
Remove contaminated clothing and wash before reuse.  
If exposed or concerned: Get medical advice/attention.  
Call a poison control center or doctor if you feel unwell.

*Storage*

Store in a cool, well-ventilated place and keep container tightly closed.  
Store locked up.

*Disposal*

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards Not Otherwise Classified**

Lachrymator

Rapid polymerization will occur on skin with heat. If a quantity is large, skin burn may occur.

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**Section 3 – Composition/Information on Ingredients**

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Chemical Name	Common Name/Synonyms	CAS Number	Concentration %
Ethyl-2-Cyanoacrylate		7085-85-0	>99
2,2'-Methylenebis(6-tert-butyl-4-methylphenol)		119-47-1	<0.2

\*Nonhazardous ingredients are not listed and make up the balance of the product.

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**Section 4 – First-Aid Measures**

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**Description of first aid measures**

**Ingestion:** Ensure airways are not obstructed. The product will polymerize upon contact with the mouth and be almost impossible to swallow. Saliva will slowly separate the product from the mouth. Do not induce vomiting. Immediately contact poison control center or hospital emergency room.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a physician.

**Skin:** Wash material off the skin with plenty of water. If skin bonding occurs, soak in nail polish remover, acetone or warm water and carefully peel or roll the skin apart (do not pull).

**Eyes:** If eye contact occurs, hold eyelid open and rinse thoroughly but gently with only water for 15 minutes and GET MEDICAL ATTENTION. Do not use any solvents to flush the eye and its surroundings. Liquid glue will sting eye temporarily. Solidified glue may irritate like a grain of sand and should be treated by an eye doctor.

**Most important symptoms/effects, acute and delayed**

The most important symptoms or effects are described in Section 2 and 11.

**Indication of immediate medical attention & special treatment needed.** - No data available.

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**Section 5 – Fire-Fighting Measures**

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**Extinguishing media**

**Suitable** – Use dry chemical, water spray or carbon dioxide (CO<sub>2</sub>) to extinguish fire.

**Unsuitable** – No data available.

**Special hazards arising from the chemical** – Carbon oxides, nitrogen oxides

**Special protective equipment and precautions for fire-fighters** – Self-contained breathing apparatus with face piece and protective clothing if involved in a fire of other materials.

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**Section 6 - Accidental Release Measures**

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**Personal precautions, protective equipment and emergency procedures**

Use personal protective recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personal. Avoid breathing vapors. Ventilate area. Eliminate all sources of ignition.

**Environmental Precautions**

Prevent entry into natural bodies of water.

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

**Containment** – Material may be taken up on sand or clay absorbent. Wipe and soak up with an absorbent material and remove to a chemical disposal area.

**Clean-up** – Eliminate all sources of ignition. Keep absorbent in a suitable, closed container and dispose of according to local regulations.

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**Section 7 – Handling and Storage**

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**Precautions for safe handling**

Bonds skin instantly. Keep away from skin and eyes. Avoid breathing vapors. Keep away from ignition sources. Prevent buildup of electrostatic charge. Wash thoroughly after handling.

**Conditions for safe storage**

Store in a cool, dry area away from sun and heat. Keep containers tightly closed. Exposure to small amounts, even air, causes polymerization and renders the product unusable. Keep away from heat, sparks, flames and other ignition sources.

**Incompatibilities**

Keep away from amines.

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**Section 8 – Exposure Controls/Personal Protection**

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**Exposure guidelines**

Component	NIOSH		ACGIH	OSHA	Units
	TWA	STEL	TWA	PEL	
Ethyl-2-Cyanoacrylate	N.E.	N.E.	1	N.E.	mg/m <sup>3</sup>

N. E. = Not Established

**Engineering controls**

The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices.

These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate.

**Personal protective equipment**

Eye/face protection – Wear safety goggles.

Skin protection – Wear impervious gloves as required to prevent skin contact.

Respiratory protection – Where air contaminants can exceed criteria, use NIOSH approved respiratory protection equipment.

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**Section 9 – Physical and Chemical Properties**

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|---|---|
| <b>a) Appearance:</b> Clear, colorless liquid                             | <b>l) Vapor density:</b> >1   |
| <b>b) Odor:</b> Irritating  | <b>m) Relative density:</b> 1.05 g/cm <sup>3</sup><br>(Water = 1 @ 25°C)  |
| <b>c) Odor threshold:</b> No data available                               | <b>n) Solubility:</b> Insoluble in water<br>(causes rapid polymerization) |
| <b>d) pH:</b> No data available   | <b>o) Partition coefficient:</b> No data available                        |
| <b>e) Melting point/freezing point:</b><br>-21°C/-6°F                     | <b>p) Auto-ignition temperature:</b> No data available                    |
| <b>f) Initial boiling point and boiling range:</b> 62°C/144°F             | <b>q) Decomposition temperature:</b> No data available                    |
| <b>g) Flash point:</b> 83°C/181°F   | <b>r) Viscosity:</b> 2 cps @ 25°C   |
| <b>h) Evaporation rate:</b> No data available                             | <b>s) VOC content:</b> 0 g/L (SCAQMD Method 316B)                         |
| <b>i) Flammability:</b> No data available                                 |   |
| <b>j) Upper/lower flammability or explosive limits:</b> No data available |   |
| <b>k) Vapor pressure:</b> 0.13 (mmHg @ 20°C), 17.33 (Pa @ 20°C)           |   |

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**Section 10 – Stability and Reactivity**

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**Reactivity** – No data available

**Chemical stability** – Stable under recommended storage conditions

**Possibility of hazardous reactions** – No data available

**Conditions to avoid** – High humidity, high temperatures, ultraviolet rays

**Incompatible materials** – Water, alcohol, basic compounds such as amines

**Hazardous decomposition products** – CO, CO<sub>2</sub>, Nitrogen oxides

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**Section 11 – Toxicological Information**

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**Information on likely routes of exposure**

**Inhalation** – May cause irritation.

**Ingestion** - May be harmful if swallowed.

**Skin** – Bonds skin instantly. May cause an allergic skin reaction.

**Eye** – Causes serious eye irritation.

**Symptoms related to physical, chemical and toxicological characteristics**

No data available.

**Delayed and immediate effects & also chronic effects from short- & long-term exposure**

No data available.

**Numerical measures of toxicity**

No data available.

**Carcinogenicity**

**NTP** – No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC** – No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

**OSHA** – No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**ACGIH** – No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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**Section 12 – Ecological Information**

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**Ecotoxicity** – No data available.

**Persistence and degradability** – No data available.

**Bioaccumulative potential** – No data available.

**Mobility in soil** – No data available.

**Other adverse effects** – No data available.

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**Section 13 – Disposal Considerations**

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Disposal should be in accordance with applicable local, regional and national laws and regulations.

**Contaminated packaging** – Dispose of as unused product.

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**Section 14 – Transport Information**

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**UN number** – Not a dangerous good.

**UN proper shipping name** – Not applicable.

**Transport hazard class(es)** – Not applicable.

**Environmental hazards** – No data available.

**Transport in bulk** – No data available.

**Special precautions** – No data available.

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**Section 15 – Regulatory Information**

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**US Federal Regulations**

SARA Title III: Section 311/312

Fire hazard, Immediate Health Hazard

SARA Title III: Section 313 & 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA Title III Section 313

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

California Prop. 65

**WARNING:** This product can expose you to chemicals including sulfur dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to: [www.P65Warnings.ca.gov/](http://www.P65Warnings.ca.gov/)

Ingredient	CAS Number
Sulfur dioxide	7446-09-5

## Canadian Regulations

### Workplace Hazard Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the SDS contains all the information required by the CPR.

Class B, DIV 3  
Class D, DIV 2A  
Class D, DIV 2B

### Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substance List (DSL) or otherwise comply with CEPA new substance notification requirements.

### National Pollutant Release Inventory

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16 (1), National Pollutant Release Inventory.  
None

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## Section 16 – Other Information

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