

Material Safety Data Sheet  
 May be used to comply with  
 OSHA's Hazard Communication Standard.  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No.1218-0072

IDENTITY (As Used on Label and List) ARON ALPHA TYPE 201	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
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**Section 1**

Manufacture's Name Krazy Glue Co. Div. of Toagosei America Inc.	Emergency Telephone Number (614)879-9411
Address (Number, Street, City, State, and ZIP code)  1450 West Main Street West Jefferson, OH 43162	Telephone Number for Information (614)879-9411
	Date Prepared Aug. 1, 2000
	Signature of Preparer (optional) H. Oikawa

**Section 2 Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(Optional)
1 Ethyl 2-Cyanoacrylate (CAS NO. 7085-85-0)	Not Listed	1mg/m <sup>3</sup> (TWA)		>99
2 Hydroquinone (CAS NO. 123-31-9)	2mg/m <sup>3</sup> (TWA)	2mg/m <sup>3</sup> (TWA)		<0.1

**Section 3 Physical/Chemical Characteristics**

Boiling Point	(5mmHg)	62°C	Specific Gravity (H2O = 1)	(25°C)	1.05
Vapor Pressure (mm Hg)	(20°C)	0.13mmHg	Melting Point		<-20°C
Vapor Density (AIR = 1)		>1	Evaluation Rate (Butyl Acetate = 1)		No data
Solubility in Water	Insoluble, Water causes rapid polymerization		Volatile Organic Compound (EPA Method 24)		98.8%
Appearance and Odor	Colorless liquid with specific odor				

**Section 4 Fire and Explosion Hazard Data**

Flash Point (Method Used)	83°C (closed cup)	Flammable Limits (% by Vol.)	LEL	No data	UEL	No data
Extinguishing Media	Dry chemicals, carbon dioxide					
Special Fire Fighting Procedures	Self-contained breathing apparatus with facepiece and protective clothing if involved in a fire of other materials.					
Unusual Fire and Explosion Hazards	None known					

**Section 5 ----- Reactivity Data**

Stability	Unstable	X	conditions to Avoid High humidity, high temperature or ultraviolet ray.
	Stable		

Incompatibility (Materials to Avoid)  
Basic compound such as amines.

Hazardous Decomposition or Byproducts  
Will not occur

Hazardous Polymerization	May Occur	X	conditions to Avoid Contact with basic compound such as amines.
	Will Not Occur		

**Section 6 ----- Health Hazard Data**

Route(s) of Entry :	Inhalation?	Skin?	Ingestion?
	Yes	No	No

Health Hazards (Acute and Chronic)

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

Inhalation : high vapor concentration can induce nasal mucus, headache and giddiness.

Eye : Eye irritation and lachrymation will occur slightly.

Carcinogenicity :	NTP?	IARC Monographs?	OSHA Regulated
	No	No	No

Signs and Symptoms of Exposure  
Mild irritation of eyes, nose and throat.

Medical Conditions  
Generally Aggravated by Exposure  
Inhalation : Nasal mucus, headache and giddiness in some individuals.  
Eye : Lachrymation, irritation.

Emergency and First Aid Procedures  
Skin : Wash material off the skin with plenty of water.  
Eye : If eye contact occurs, immediately flush with plenty of water for at least 15minutes and get medical attention.

Inhalation : remove person to fresh air. If cough or difficulty in breathing develop, get medical attention.

**Section 7 ----- Precautions for Safe Handling and Use.**

Steps to Be Taken in Case Material is Released or Spilled.

Wear eye protection, protective clothing. Wipe and soak up liquid with absorbent like rags if a large quantity is spilled.

Ventilate spill area.

Waste Disposal Method  
Immerse absorbent in a pail water and dispose as oily rags.

Water will cause instant polymerization to an inert solid.

Precautions to Be Taken in Handling and Strong

Avoid contact with skin and eyes. Store in dark, cool place.

Avoid storage with primers.

Other Precautions

ventilate the operation room. Local ventilation is recommended for use in large quantity.

**Section 8 ----- Control Measures**

Respiratory Protection	(Specify Type) Not normally needed if controls are adequate.		
Ventilation	Local Exhaust	Special	Not required
	Mechanical (General)	Other	Not required
	Normal air exchange		
	Normal air exchange		

Protective Gloves Polyethylene gloves Eye protection Eye glasses

Other Protective Clothing or Equipment  
Not required

Work/Hygienic Practices  
Not required