Material Safety Data Sheet

KRAZY GLUE CO.

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name	**ARON ALPHA TYPE Setter E5**	*Emergency Telephone Number*
Product number	AA-711	**CHEMTREC (800) 424-9300**
Manufacture's Name	**Krazy Glue Co., Div. of Toagosei America Inc.**	*Telephone Number for Information*
Address	**1450 West Main Street** **West Jefferson, OH 43162**	**(614) 879-9411**

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Emergency Overview

A slightly yellow liquid with a sweet odor similar to gasoline.

Caution!
Flammable

Warning!
May be harmful if inhaled.
Irritant.

2.2 OSHA Regulatory Status

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

2.3 Potential Health Effects

Route(s) of Entry :

Inhalation?	Skin?	Ingestion?
Yes	Yes	Yes

Signs and Symptoms of Exposure

Stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), visual impairment and death.

Immediate Hazards

Ingestion:	Swallowing may be harmful. It can enter the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.
Inhalation:	May be harmful if inhaled in large amounts.
Skin:	May cause mild irritation. Prolong or repeated contact may dry the skin. Symptoms include redness, burning, drying and cracking of skin, and skin burns.

Eyes: May cause irritation such as stinging tearing, redness and swelling.

Health Hazards *(Acute and Chronic)*

Skin: May cause mild irritation.

Ingestion: It can enter the lungs and cause damage.

Inhalation: May be harmful if inhaled in large amounts.

Eye: May cause irritation.

Medical Conditions Generally Aggravated by Exposure

Skin, lung, asthma-like conditions, liver, kidney, central nervous system, nervous system, auditory system, eye, chronic lung disease, coronary artery disease or anemia.

Note: None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

	Components (Specific Chemical Identity; Common Name(s) and CAS number)	%
1	Ethyl Alcohol (CAS NO. 64-17-5)	>95
2	N,N,4-Trimethybenzenamine (CAS NO. 99-97-8)	<5

SECTION 4 -FIRST AID MEASURES

INGESTION:
Do not induce vomiting unless directed to do so. Do not leave unattended. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION:
If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

SKIN: In case of skin contact, remove contaminated clothes. Wash off with soap and plenty of water. Call a physician.

EYES: In case of contact with eyes, move away from exposure and into fresh air. Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5 -FIRE FIGHTING MEASURES

5.1 Flammable Properties

See section 9 for flammable properties.

5.2 Extinguishing Media

5.2.1 Suitable extinguishing media

Use dry chemical, carbon dioxide (CO_2) or water mist.

5.2.2 Unsuitable extinguishing media

N/A

5.3 Protection of firefighters

5.3.1 Specific hazards arising from the chemical

Unusual Fire and Explosion Hazards

Vapors may travel along the ground or be moved by ventilation and ignited.

5.3.2 Protective equipment and precautions for firefighters

Wear full firefighting turn-out gear (full Bunker gear) and
respiratory protection (SCBA).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Use personal protection recommended in Section 8. Isolate the hazard area and
deny entry to unnecessary and unprotected personnel. Avoid breathing vapors, mist or gas. Ventilate area.
Eliminate all sources of ignition. Vapors can accumulate in low areas.

6.2 Environmental precautions

Prevent entry into drains, natural bodies of water and the environment.

6.3 Methods for containment

Material may be taken up with a non-combustible absorbent material (sand or clay).

6.4 Methods for clean-up

Eliminate all sources of ignition.
Place in container for disposal according to local/national regulations (see section 13).

SECTION 7 -HANDLING AND STORAGE

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding
unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly
after handling. Avoid inhalation of vapor or mist. Containers may be hazardous when emptied.
Emptied containers retain product residues. Static ignition hazard can results from handling and use.
Electrically bond and ground all containers, personnel and equipment before transfer or use.

7.2 Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully
resealed and kept upright to prevent leakage. Store in cool place.
Keep away from heat, sparks, flame and other ignition sources.

SECTION 8 -PERSONAL PROTECTION / EXPOSURE CONTROLS

8.1 Exposure guidelines

	OSHA	ACGIH	
Component	TWA	TWA	Units
Ethyl Alcohol	1000	1000	ppm
N,N,4-Trimethybenzenamir	N. E.	N. E.	-

N. E. = Not Established

8.2 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.

8.3 Personal protection equipment (PPE)

8.3.1 Eye/face protection

Wear safety glasses.

8.3.2 Skin protection

Wear impervious gloves as required to prevent skin contact.

8.3.3 Respiratory protection

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection.

8.3.4 General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and t the end of workday. Avoid breathing vapor. Avoid contact with skin and eyes.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Slightly Yellow	
Odor	Sweet, like gasoline	
Odor Threshold	N/A	
Physical State	Liquid	
pH	N/A	
Melting Point	-91°C	
Boiling Point (@ 532 Pa)	93.3°C/200°F	
Flash Point (Closed Cup)	14°C/57.2°F	
Evaporation Rate (Butyl acetate = 1)	N/A	
Lower explosion limit	3.3	
Upper explosion limit	19	
Vapor Pressure (mmHg @ 20°C)	40	
(Pa @ 20°C)	5333	
Vapor Density (AIR = 1)	3.5	
Specific Gravity (H2O = 1 @ 25°C)	0.7	
Solubility in Water	Soluble	
VOC content (g/L)	0	(SCAQMD Method 316B)

Partition coefficient N/A

Auto-ignition temperature N/A

Decomposition temperature N/A

SECTION 10 - STABILITY AND REACTIVITY

10.1 Chemical stability

Unstable:
Stable: **X**

Stable under normal storage conditions

10.2 Conditions to avoid

Sparks, heat and flames.

10.3 Incompatible materials (Materials to Avoid)

Strong oxidizing agents

10.4 Hazardous decomposition products

Carbon oxides, various hydrocarbons

10.5 Possibility of hazardous reactions

May Occur:
Not Occur: **X**

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Inhalation Toxicity
LC 50 Rat: 20,000, 10 h

Acute Dermal Toxicity
LD 50 Rabbit: 20 g/kg

Acute Oral Toxicity
LD 50 Rat: 7,060 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Physical Properties Affecting Ecotoxicity

BOD:	3.50%
BOD after 5 Days:	55%

Accumulation
Bioaccumulation Potential: Indication of bioaccumulation

Additional Results/Data From Relevant Scientific Experiments
Avoid contamination of the environment because of harmful effects on water organisms, this material should not be introduced into drains.

SECTION 13 - DISPOSAL INFORMATION

Disposal should be in accordance with applicable local, regional and national laws and regulations.
Local regulations may be more stringent than regional or national requirements.
May contain explosive vapors. DO NOT cut, puncture or weld on or nearby.

SECTION 14 – TRANSPORT INFORMATION

14.1 Basic shipping description

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

US DOT

Proper shipping name: Ethyl Alcohol Solution
UN Number 1170
Class 3
Packing Group II

IATA

Proper shipping name: Ethyl Alcohol Solution
UN Number 1170
Class 3
Packing Group II

14.2 Additional Information

Canadian TDG

WHMIS Classification: this product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

SECTION 15 - REGULATORY INFORMATION

15.1 U.S. Federal Regulations

SARA Title III: Section 311/312

Fire hazard
Acute health hazard
Chronic health hazard

SARA Title III Section 313 and 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.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.
CLASS B, DIV 2

Canadian Environmental Protection Act (CEPA)

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

National Pollutant Release Inventory (NPRI)

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

15.3 State and Local Regulations

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:
This product contains the following substance(s) known to the state of California to cause cancer.

Ethanol
Acetaldehyde
Benzene
2,4,5-Trimethylaniline

This product contains the following substance(s) known to the state of California to cause reproductive harm.

Benzene
Toluene
Ethanol

SECTION 16- OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Toagosei America Ltd. nor any of its subsidiaries any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

HMIS Rating

Health	**2**
Flammability	**3**
Physical Hazard	**1**

0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe