

Material Safety Data Sheet



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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<i>Product name</i> <i>Product number</i>	ARON ALPHA TYPE Setter H5 AA-709	<i>Emergency Telephone Number</i>
<i>Manufacture's Name</i>	Krazy Glue Co., Div. of Toagosei America Inc.	CHEMTREC (800) 424-9300
<i>Address</i>	1450 West Main Street West Jefferson, OH 43162	<i>Telephone Number for Information</i>
		(614) 879-9411

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Emergency Overview

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

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?
Yes

Skin?
Yes

Ingestion?
Yes

Signs and Symptoms of Exposure

Stomach or intestinal upset, irritation, CNS depression, temporary changes in mood and behavior, loss of appetite, lack of coordination, irregular heartbeat, narcosis.

Immediate Hazards

Ingestion: Not expected to be swallowed under normal conditions of use. There is an aspiration hazard if swallowed. It can enter lungs and cause damage. Might have harmful effects. Call a physician.

Inhalation: May be harmful if inhaled. Vapors may cause drowsiness and dizziness. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Cause skin irritation.

Eyes: May cause irritation.

Health Hazards (Acute and Chronic)

Skin: Prolonged or repeated exposure to skin causes defatting and dermatitis.

Ingestion: There is an aspiration hazard. It can enter the lungs and cause damage.

Inhalation: Causes respiratory tract irritation and damage to lungs

Eye: May cause irritation.

Medical Conditions Generally Aggravated by Exposure

Skin, lung, asthma-like conditions, auditory system, heart disorders.

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 Heptane (CAS NO. 142-85-2)	>95	
2 N,N,4-Trimethylbenzenamine (CAS NO. 99-97-8)	<5	

SECTION 4 -FIRST AID MEASURES

INGESTION:

Do not induce vomiting. Rinse mouth with water if conscious.
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. Call a physician.

SKIN: In case of skin contact, wash off with soap and plenty of water.
Call a physician.

EYES: In case of contact with eyes, 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 or carbon dioxide (CO₂) to extinguish small fires. For large fires,
apply water as a mist or spray from as far as possible.

5.2.2 Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.3 Protection of firefighters

5.3.1 Specific hazards arising from the chemical

Unusual Fire and Explosion Hazards

Flash back possible over considerable distance.

5.3.2 Protective equipment and precautions for firefighters

Self-contained breathing apparatus with face piece and protective clothing if involved in a fire of other materials

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 result 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

Component	OSHA	ACGIH		Units
	TWA	TWA	STEL	
Heptane	500	400	500	ppm
N,N,4-Trimethylbenzenamin	N. E.	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 at the end of workday. Avoid breathing vapor. Avoid contact with skin and eyes.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance _____	Slightly yellow liquid similar to gasoline
Odor _____	Sweet
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) _____	-4°C/24.8°F
Evaporation Rate (Butyl acetate = 1) _____	<1
Lower explosion limit _____	1.1
Upper explosion limit _____	7
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 _____	Insoluble

VOC content (g/L) _____ 680 (SCAQMD Method 316B)
Partition coefficient _____ N/A
Auto-ignition temperature _____ 223°C/433°F
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

10.5 Possibility of hazardous reactions

May Occur:
Not Occur: **X**

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Inhalation Toxicity

LC 50 Rat: 103 g/m³, 4 h

Acute Dermal Toxicity

LD 50 Rabbit: >2,001 mg/kg

Acute Oral Toxicity

LD 50 Rat: > 15, 000 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Effects

Toxicity to Fish

LC50 - Carassius auratus (goldfish) - 4.00 mg/l - 24 h

LC50 - other fish - 375 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 1.50 mg/l - 48 h

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: Heptanes Solution
UN Number 1206
Class 3
Packing Group II

IATA

Proper shipping name: Heptanes Solution
UN Number 1206
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

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.

Benzene

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

Benzene

Toluene

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 **0**

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