

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 Remover AA-717	<i>Emergency Telephone Number</i> CHEMTREC (800) 424-9300
<i>Manufacture's Name</i>	Krazy Glue Co., Div. of Toagosei America Inc.	<i>Telephone Number for Information</i> (614) 879-9411
<i>Address</i>	1450 West Main Street West Jefferson, OH 43162	

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Emergency Overview

A clear gel with a mint-like odor.

Caution!
Flammable

Warning!
May be harmful if inhaled.
Causes eye irritation

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) and other central nervous system effects, high blood sugar, coma

Immediate Hazards

Ingestion: Not expected to be swallowed under normal conditions of use. Small amounts are not likely to cause harmful effects. Large amounts may be harmful.

Inhalation: May be harmful if inhaled if breathed in large amounts. Symptoms are no expected at air concentrations below the recommended exposure limits).

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

Health Hazards (Acute and Chronic)

Skin: Prolonged or repeated exposure may dry skin. Symptoms may include redness, burning, dry and cracking of skin, and skin burns.

Ingestion: It can enter the lungs during swallowing or vomiting which causes lung inflammation and other lung injury.

Inhalation: High vapor concentration can induce nasal mucous, headaches, and giddiness

Eye: May cause irritation.

Medical Conditions Generally Aggravated by Exposure

Skin, lung, asthma-like conditions, a blood-forming system.

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 Acetone (CAS NO. 67-64-1)	≥95
2 Cellulose 2-hydroxypropyl ether (CAS NO. 9004-64-2)	<3
3 Others	<2

SECTION 4 -FIRST AID MEASURES

INGESTION:

Seek medical attention. Never give anything my mouth to an unconscious person. Contact a physician, medical facility or poison control center for advice about whether to induce vomiting. Do not leave unattended.

INHALATION:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Keep warm and quiet. Call a physician.

SKIN: In case of skin contact, wash off with soap and plenty of water. Remove contaminated clothing and shoes. 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, carbon dioxide (CO₂) or alcohol resistant foam.

5.2.2 Unsuitable extinguishing media

Water

5.3 Protection of firefighters

5.3.1 Specific hazards arising from the chemical

Unusual Fire and Explosion Hazards

None

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.

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. 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.
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	STEL	TWA	STEL	
Acetone	1000	N. E.	500	750	ppm
Cellulose 2-hydroxypropyl eth	N. E.	2400	N. E.	1782	mg/m ³

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 goggles.

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 _____	Clear, colorless gel
Odor _____	Mint-like
Odor Threshold _____	N/A
Physical State _____	Liquid
pH _____	N/A
Melting Point _____	-94C
Boiling Point (@ 532 Pa) _____	56°C/133°F
Flash Point (Closed Cup) _____	-18°C/-0.4°F
Evaporation Rate (Butyl acetate = 1) _____	N/A
Lower explosion limit _____	2.6

Upper explosion limit _____ 12.8
Vapor Pressure (mmHg @ 20°C) _____ 187
(Pa @ 20°C) _____ 24931
Vapor Density (AIR = 1) _____ 2.0
Specific Gravity (H2O = 1 @ 25°C) _____ N/A
Solubility in Water _____ Miscible (Acetone)
VOC content (g/L) _____ 0 (SCAQMD Method 316B)
Partition coefficient _____ N/A
Auto-ignition temperature _____ 465°C/869°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, Reducing agents, alkalis, acids.

10.4 Hazardous decomposition products

Carbon dioxide and carbon monoxide

10.5 Possibility of hazardous reactions

May Occur:
Not Occur: **X**

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Inhalation Toxicity

LC 50 Rat: 16000 ppm, 4 h

Acute Dermal Toxicity

LD 50 Rabbit: >20,000 mg/kg

Acute Oral Toxicity

LD 50 Rat: 5,800 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Acute and Prolonged Toxicity to Fish

96 h LC 50 Fathead minnow (*Pimephales promelas*): 8,733-9,482 mg/l Mortality
96 h LC 50 Bluegill (*Lepomis macrochirus*): 8,300 mg/l Mortality
96 h LC 50 Rainbow trout, Donaldson trout (*Oncorhynchus mykiss*): 4,740-6,300 mg/l Mortality

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

Unrestricted

IATA

Unrestricted

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
Immediate 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
2,4,5-Trimethylaniline

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

Benzene

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