

# MASTER PACK

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**IMPORTANT  
PLEASE READ**

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

Product Name: Component A Aqua Clear (Curing Agent)

### SECTION II - INFORMATION OR INGREDIENTS

The criteria for listing components in the composition section is as follows: carcinogens are listed when present at 0.1% or greater, components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater, non-hazardous components are listed at 3.0% or greater. This is not intended to be a complete compositional disclosure. Refer to section 15 for applicable states rights to know and regulatory information.

Product and/or Component(s) Carcinogenic According to:

OSHA	IARC	NTP	OTHER	NONE
				X

Composition: (Sequence number and chemical name)

<u>Seq.</u>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
01*	Polyoxymethyl-1, 2-ethanediyl, alpha hydro-omega-(2-aminomethylethoxy)-ether with 2 ethyl-2-(hydroxymethyl)-1,3-propanedio(3:1)	39423-51-3	100.00

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200)  
exposure limits referenced by Sequence Number in the Composition section

Seq. Limits

None

### SECTION III - HAZARD INFORMATION

Emergency Overview

Appearance: Colorless liquid  
Odor: Ammonia-like odor

### WARNING STATEMENT

**DANGER!!!** Corrosive - causes eye and skin burns. Harmful or fatal if swallowed. Harmful if absorbed through skin. Causes respiratory track infection and can cause damage.

**Ingestion:** If person is conscious and can swallow, immediately give two glasses of water (16 oz.), but do not induce vomiting. This material is corrosive. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

**Inhalation:** If inhaled - remove to fresh air. If not breathing or in respiratory distress, clear persons airway and start artificial respiration. With physician advice, give supplemental oxygen using a bag-valve mask or manually triggered oxygen supply.

**Other Instructions:** Swallowing of this corrosive mater may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use methods least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.

Remove and dry clean or launder clothing soaked or soiled with this material before re-use. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform the individuals responsible for cleaning of potential hazardous associated with handling contaminated clothing.

### **SECTION IV - FIRE FIGHTING MEASURES**

Ignition temperature (degrees F): Not determined.  
Flash Point (degrees F): 385 (PMCC)  
Flammable Limits (%): Lower: Not determined  
Upper: Not determined

Recommended fire extinguishing agents and special procedures:  
Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire exposed containers. Water or foam may cause frothing.

Unusual or explosive hazards: None

Special protective equipment for fire fighters:

Wear special chemical protective clothing and positive pressure self-contained-breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residue.

**SECTION V - ACCIDENTAL RELEASE MEASURES**

(Transportation Spills: CHEMTREC (800) 424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes, or clothing.

**SECTION VI - HANDLING AND STORAGE**

Precautions to be Taken in Handling

Minimum feasible handling temperatures should be maintained. Eye wash and safety shower should be available nearby when this product is handled or used.

Storage

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. If stored above 100°F, nitrogen atmosphere is recommended.

**SECTION VII - EXPOSURE CONTROL/PERSONAL PROTECTION**

Protective Equipment (type)

Eye/face protection

Avoid eye contact. Chemical type goggles with face shield must be worn. Do not wear contact lenses.

Skin protection

Protective clothing such as coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

Respiratory protection:

Airborne concentration should be kept to the lowest possible levels. If vapor, mist or dust is generated and the occupational exposure limit of the product is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation

Local exhaust ventilation recommended if generating vapor, dust or mist. If exhaust ventilation

is not available, use MSHA or NIOSH approved respirator.

Exposure limit for total product: None established for this product.

### SECTION VIII - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Ammonia-like odor
Boiling Point (degrees F):	Not determined
Melting/Freezing Point:	Not determined
Specific Gravity (water=1)	.9812
pH of undiluted Product:	11.6
Vapor Pressure:	1 mmHg at 357.0
Viscosity:	72 est at 25.0 C
VOC Content:	Not determined
Vapor Density (air=1):	>1
Solubility on water (%):	>10
Other:	None

### SECTION IX - STABILITY AND REACTIVITY

This material reacts violently with:	Air	Water	Heat	Strong Oxidizer	Other	None
						X

Comments: This material reacts violently with acids.

Products evolved when subjected to heat or combustion:

Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

Hazardous Polymerizations: DO NOT OCCUR

### SECTION X - TOXICOLOGICAL INFORMATION

#### TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

##### Median Lethal Dose

Oral:	.22g/kg (rat) toxic
Inhalation:	Believed to be practically non-toxic
Dermal:	LD50 .61g/kg (rabbit) moderately toxic

##### Irritation Index, Estimation of irritation (Species)

Skin:	(Draize) 8.00/8.00 (rabbit) corrosive
Eyes:	(Draize) Believed to be 80.00-110.00/110 (rabbit) extremely irritating
Sensitization:	(Buehler) Negative - skin (guinea pig)

Other: None

### SECTION XI - DISPOSAL CONSIDERATION

#### Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks: None

### SECTION XII - TRANSPORT INFORMATION

#### Transportation

##### DOT:

Proper Shipping Name: Corrosive Liquids Toxic N.O.S. (Polyoxypropylenetriamine)  
Hazard Class: 8  
Identification Number: U.N. 2922  
Packing Group: III  
Label Required: Corrosive (Toxic)

##### IMDG:

Proper Shipping Name: Corrosive Liquids Toxic N.O.S. (Polyoxypropylenetriamine)  
Hazard Class: 8 (6.1)  
Identification Number: U.N. 2922  
Packing Group: III  
Label Required: Corrosive (Toxic)

##### ICAO:

Proper Shipping Name: Corrosive Liquids Toxic N.O.S. (Polyoxypropylenetriamine)  
Hazard Class: 8 (6.1)  
Identification Number: U.N. 2922  
Packing Group: III  
Label Required: Corrosive (Toxic)

#### INTERNATIONAL REGULATIONS:

##### WHMIS Classification:

Class E: Corrosive  
Class D, Div 1, SUBDIV B: Toxic

#### Canada Inventory Status:

All components are listed on the Canadian Domestic Substance List (DSL).

#### IENECS Inventory Status:

Not Determined

Australia Inventory Status:

All components are listed on the Australian inventory of Chemical Substances (ACIS).

Japan Inventory Status:

All components are listed on the Japanese Ministry of International Trade and Industry (MITI) Inventory.

TDG: Proper Shipping Name: Corrosive Liquid Toxic N.O.S. (Polyoxypropylenetriamine)

Hazard Class: 8 (6.1)

Identification Number: U.N. 2922

Packing Group: III

Label Required: Corrosive (Toxic)

**SECTION XIII - REGULATORY INFORMATION**

Federal Regulations

SARA Title III:

Section 302/304 Extremely Hazardous Substances: None

	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>	<u>N/A</u>
Section 311 Hazard Categorization:	X					

Section 313 Toxic Chemical: None

CERCLA 102(a)/ DOT Hazardous Substances: None

TSCA Inventory Status:

This product, or its components, are lists on or are exempt from the toxic substances control act (TSCA) chemical substance inventory.

<u>HMIS</u>			<u>NFPA</u>				
Health	3	Reactivity	0	Health	3	Reactivity	0
Flammability	1	Special-		Flammability	1	Special	-

POTENTIAL HEALTH EFFECTS:	<u>EYE</u>	<u>SKIN</u>	<u>INHALATION</u>	<u>INGESTION</u>
Primary Route of Exposure:	X	X	X	

State Regulations:

California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and/or reproductive toxicity.

States Right-to-Know Regulations: None

International Regulations:

TSCA Inventory Status:

This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory

WHMIS Classification:

Class E: Corrosive

Class D, Div 1, Subdivision B: Toxic

Canada Inventory Status:

This product, or its components are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

Not Determined

Australia Inventory Status:

This product, or its components are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status:

All components are listed on the Japanese Ministry of International Trade and Industry (MITI) Inventory.

#### EFFECTS OF OVEREXPOSURE

Acute:

- |             |   |
|-------------|---|
| Eyes:       | Causes irritation experienced as pain, with excess blinking and tear production, and seen as extreme redness and swelling of the eye and chemical burns of the eye. Severe eye damage may cause blindness.  |
| Skin:       | Causes severe irritation with pain. Severe excess redness and swelling with chemical burns, blisters formation, and possible tissue destruction. In addition to the potential skin irritation effects noted above, skin contact may result in other adverse health effects.           |
| Inhalation: | Vapors or mist, especially as generated from heating the material or as from exposure in poorly ventilated areas or confined spaces, are irritating and cause nasal discharge, coughing, and discomfort in nose and throat. Prolonged or repeated exposure may result in lung damage. |
| Ingestion:  | Causes burning of mouth, throat and stomach with abdominal and chest  |

pain, nausea vomiting and diarrhea, thirst, weakness, and collapse. Aspiration may occur during swallowing or vomiting resulting in lung damage.

**Sensitization Properties:**

This product is not expected to be a human skin sensitizer based on animal data.

**Chronic:** Repeated skin contact may cause a persisted irritation or dermatitis. Repeated inhalation may cause lung damage.

**Medical Condition Aggravated by Exposure:**

Skin contact may aggravate an existing dermatitis (skin condition). Overexposure due to vapor, dust or mist may aggravate existing respiratory condition such as asthma. Bronchitis, and inflammatory of fibrotic respiratory disease.

**Other**

**Remarks:** This product contains one or more amines which may produce temporary and reversible hazy or blurred vision. Symptoms disappear when exposure is terminated.

**SECTION XIV ENVIRONMENTAL INFORMATION**

**Aquatic Toxicity:** Not determined

**Mobility:** Not Determined

**Persistence and Biodegradability:** Not Determined

**Potential to Bioaccumulate:** Not Determined

**Remarks:** None

**SECTION XV - FIRST AID MEASURES**

**Eyes:** Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention immediately. Continue flushing for an additional 15 minutes if medical attention is not immediately available.

**Skin:** Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to

neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before reuse.

Ingestion: If person is conscious and can swallow, immediately give two glasses of water (16 oz.) But do not induce vomiting. This material is corrosive. If vomiting occurs, give fluid again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person. Inhalation: If inhaled, remove to fresh air. If not breathing or in respiratory distress, clear persons airway and start artificial respiration. With a physician's advice, give supplemental oxygen using a bag-valve mask or manually triggered oxygen.

Other instructions: Swallowing of this corrosive material may result in sever ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a poison control center for additional treatment information.