

Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



SECTION 2 - INGREDIENTS

Num CAS Number and Chemical Name

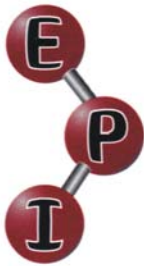
1. 100-51-6 Benzenemethanol
2. 109-55-7 1,3-Propanediamine, N, N-dimethyl
3. 90-72-2 Phenol,2,4,6-tris[*(*9dimethylamino)methyl*]*

The remaining components are trade secret.

OSHA (ACGIH) EXPOSURE LIMITS

		TWA		STEL		CEILING	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
<hr/>							
1.	OSHA	N/E	N/E	N/E	N/E	N/E	N/E
	ACGIH	N/E	N/E	N/E	N/E	N/E	N/E
<hr/>							
2.	OSHA	N/E	N/E	N/E	N/E	N/E	N/E
	ACGIH	N/E	N/E	N/E	N/E	N/E	N/E
<hr/>							
3.	OSHA	N/E	N/E	N/E	N/E	N/E	N/E
	ACGIH	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not Established.



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



SECTION 3 - HEALTH HAZARDS

ROUTES OF EXPOSURE

Eye Contact
Skin Contact
Ingestion
Skin Absorption

EXPOSURE STANDARDS

See Section 2 for exposure standards on ingredients. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

Harmful if swallowed.
Corrosive to eyes.
Corrosive to skin.
Severe eye irritant.
Severe skin irritant.
May cause skin sensitization.

TARGET ORGANS

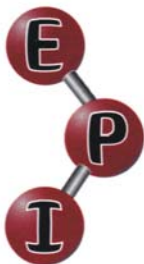
Eye
Skin

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Contact with eyes causes severe irritation and pain. Contact with skin causes severe irritation and pain. Prolonged contact may result in chemical burns and permanent damage. Inhalation of mists may cause irritation in the respiratory tract. Coughing and chest pain may result.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

Repeated and/or prolonged exposure may cause allergic reaction/sensitization.
Repeated and/or prolonged exposures may result in: adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as defatting, rash, or irritation), adverse skin effects (such as rash, irritation or corrosion).
Dryness of nasal passages may be experienced when material is inhaled over a long period.



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthma
Chronic respiratory disease (e.g. Bronchitis, Emphysema) Eye disease
Skin disorders and Allergies

CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER

This product contains no carcinogens in concentrations of 0.1 percent or greater.

SECTION 4 - FIRST AID

EYE CONTACT

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT

Remove contaminated clothing and shoes. Remove product and immediately flush affected area with water for at least 15 minutes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. Do not apply greases or ointments. Control shock, if present. Launder contaminated clothing prior to reuse.

INHALATION

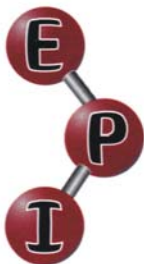
Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side.

INGESTION

If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (closed cup)	76° C (169° F)
UPPER EXPLOSION LIMIT (UEL)	12.00% (neat liquid)
LOWER EXPLOSION LIMIT (LEL)	2.50% (neat liquid)



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in reactive metal containers.

HANDLING

Avoid contact with skin or eyes. When handling, do not eat, drink, or smoke. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA).

SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

EYE PROTECTION

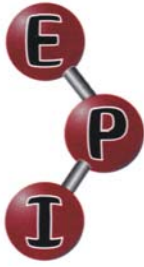
Full-face shield with goggles underneath.

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves. Polyvinyl chloride gloves.

RESPIRATORY PROTECTION

Not required under normal conditions in a well-ventilated workplace. Under the following conditions a respirator may be required: when product vapor concentration exceeds the limits listed in section 2, during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications. Types of respirators that may be used include the following: Chemical Cartridge Respirator with face piece to protect against the organic vapor, Supplied air respirator with full face piece (NIOSH Approved), Self-contained breathing apparatus in pressure demand mode. In emergency conditions use a self-contained breathing apparatus in pressure demand mode.



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



PROTECTIVE CLOTHING

Impervious clothing. Slicker Suit. Rubber boots. Full rubber suit (rain gear). Butyl or latex protective clothing.

ENGINEERING CONTROLS

Maintain air concentrations in work spaces in accord with standards outlined in Sections 2 and 3.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Use appropriate hand and skin lotions to protect the skin. Discard contaminated leather articles.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid
COLOR	Pale yellow
ODOR	Amine
pH	10-12
VAPOR PRESSURE (mm Hg at 21C (70F))	< 1.00
VAPOR DENSITY (Air = 1)	No Data
BOILING POINT	100.00 C (>212.00 F)
MELTING POINT	@1013hPA
SPECIFIC GRAVITY (Water = 1)	0.86
MOLECULAR WEIGHT	Mixture

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

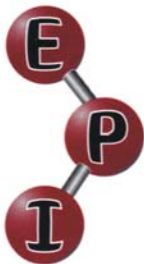
Stable

CONDITIONS TO AVOID (if unstable)

Not applicable

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizers and acids.



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials).

Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides, and compounds.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID (if polymerization may occur)

Not applicable

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)

410-1870 mg/kg (Estimate)

ACUTE DERMAL TOXICITY (LD50, RABBIT)

600-2000 (No deaths) (Estimated)

ACUTE INHALATION TOXICITY (LC50, RAT)

No Data

OTHER DATA

Toxicity data from similar products.

OTHER ACUTE EFFECTS

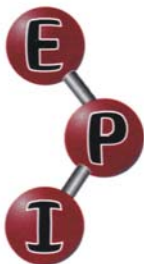
No Data

IRRITATION EFFECTS DATA

irritant

CHRONIC/SUBCHRONIC DATA

Component has caused allergic sensitization in animals.



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



SECTION 12 - ECOLOGICAL INFORMATION

No Data

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Comply with all Federal, State and Local Regulations.

SECTION 14 - TRANSPORT INFORMATION

Department of Transportation: Not regulated

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA)-

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)

Irritant. Sensitizer. Combustible.

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate Health Hazard. Delayed Health Hazard. Fire Hazard.

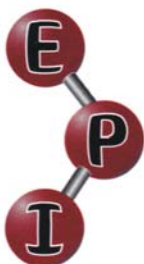
EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level is

Methyl Iso-Butyl Ketone

STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")

None



Engineered Polymers International, LLC
2842 Progress Road Madison, WI 53716

Phone: (608) 661-2800
Fax: (608) 661-2817

www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW A-Side



SECTION 16 - INTERNATIONAL REGULATIONS

New Jersey Right to Know: The following is required information

CAS # 100-51-6

Chemical Name: Benzenemethanol

Generic name: Polyamidiamine NJ Reg # 29943300001-5880P

CAS # 109-55-7

Chemical Name: 1,3-Propanediamine, N, N-dimethyl

CAS # 90-72-2

Chemical Name: Phenol, 2,4,6-tris[(9dimethylamino)methyl]

Pennsylvania Right to Know: The following is required information

CAS # 100-51-6 Comment: Hazardous substance

Chemical Name: Benzenemethanol

CAS # 109-55-7

Comment: Not on Pennsylvania Hazardous substance list

Chemical Name: 1,3-Propanediamine, N, N-dimethyl

CAS # 90-72-2

Comment: Not on Pennsylvania Hazardous substance list

Chemical Name: Phenol, 2,4,6-tris[(9dimethylamino)methyl]

CANADA

DSL

Not On Inventory. Notifications have been submitted to Environment Canada.

WHMIS HAZARD CLASSIFICATION

Class B Division 3, Class D Division 2a, Class D Division 2B

WHMIS INGREDIENT DISCLOSURE LIST

Ethylenediamine

Methyl isobutyl ketone

Benzyl alcohol

WHMIS SYMBOLS

Flames, Stylized T,

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS/ELINCS MASTER INVENTORY

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

EEC SYMBOL

Harmful (Xn)

EEC RISK (R) PHRASES

May cause sensitization by inhalation skin contact (R42/43).

AUSTRALIA

AICS

Included on Inventory.

JAPAN MITI

Not on Inventory.

PHILIPPINES PICCS

Not on Inventory.

KOREA ECL

Not on Inventory.

CHINA SEPA

Not on Inventory.