

“COMPONENT-B” – HARDENER (CORROSIVE)

P302 + P352 = P361: IF ON SKIN: Remove/Take off immediately all contaminated clothing. Wash with plenty of water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned, get medical advice/attention.

P332 + P313: IF skin irritation occurs, get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

Storage:

P403: Store in a well-ventilated place.
 P405: Store locked up.

Disposal:

P501: Dispose of contents/container to an approved waste disposal site.
 P502: Refer to manufacturer/supplier for information on recovery/recycling.

Section 3 – Composition / Information on Hazardous Ingredients

COMPONENTS	CAS NUMBER	WEIGHT
4-Tert-Butylphenol	98-54-4	2.5-10%
m-phenylenebis(methylamine)	1477-55-0	2.5-10%
2,4,6-Tris-(dimethylaminomethyl)phenol	90-72-2	2.5-10%
Trimethylhexane-1,6-diamine	25620-58-0	2.5-10%
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine	10563-29-8	2.5-10%

Note: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 – First Aid Measures

General Advise: Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated consult medical advise up to 48 hours after exposure.
First Aid: Wear protective equipment (i.e. protective gloves).
 If victim is unconscious: position and transport in “stable sideways position” to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services.

After Inhalation: Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician.

After Ingestion: Immediately seek medical attention. Do not induce vomiting. Drink plenty of water to dilute stomach contents.

After Skin Contact: Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

After Eye Contact: Rinse opened eye with plenty of running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses. Consult physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: Carbon dioxide (CO₂), extinguishing powder, water spray.
 Do not use full water jet.

Special Fire Fighting Procedures: As in any fire, wear full protective gear and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Bursting and explosion of container possible due to increase of pressure when exposed to increasing heat. In case of fire, cool nearby containers with water fog.
Formation of poisonous gases during heating or in fires possible.

Section 6 – Accidental Release Measures

Person-related Safety Precautions: Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear personal protective equipment. Remove or eliminate all ignition sources.

Methods for Cleaning up: Contain and collect spillage with non-combustible, absorbent materials. I.e. sand, earth, vermiculate, diatomaceous earth, universal binders, sawdust and place in container for disposal.

Waste Disposal Method: Dispose in accordance with local, state and federal regulations.

Ecological Information: Do not allow product to reach ground water, bodies of water, storm water or sewage systems.

Section 7 – Handling and Storage

Handling: Avoid eye and skin contact. Keep out of reach of children.

Storage: Store in a cool, dry enclosed area off the ground in tightly closed containers. No special measures required against explosion and fires. Store away from foodstuffs. Provide fresh air when handling in closed rooms (open windows and doors).

Materials to avoid: No data available.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls: Use with adequate general and local exhaust ventilation. Washing of the skin in the working area must be possible. Eye-wash station or bottle must be available.

	<u>CAS NUMBER</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>WEIGHT</u>
m-phenylenebis(methylamine):	1477-55-0	0.1 mg/m ³	0.1 mg/m ³	2.5-10%

Respiratory Protection: Respirator in well ventilated areas not necessary. Wear a properly fitted NIOSH approved respirator in poorly ventilated areas or spillage.

Skin Protection: When installing, wear appropriate impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing (acid and alkaline resistant) to prevent skin exposure (long sleeve shirt and long pants).

Eye Protection: Wear chemical splash goggles. Face shield as necessary.

Work/Hygienic Practices: Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

Section 9 – Physical and Chemical Properties

Physical State:	Liquid
Appearance/Color:	Yellowish
Odor:	Amine like
Solubility in water:	Not miscible or difficult to mix
Flash Point:	>120° C (>248 ° F)
Flammability:	Product is not self-igniting
Danger of explosion:	Product is not explosive
Boiling Point:	Not determined
Melting Point:	Not determined
Bulk Density:	0.99 g/cm ³ at 20°C (68°F)
Viscosity: (dynamic)	1400 cps (mPas) at 20°C (68°F)
VOC Concentration:	0 g/l

Section 10 – Stability and Reactivity

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Keep away from heat and ignition sources.
Hazardous Decomposition:	No dangerous decomposition or emission products known if product handled as per specifications.
Incompatibilities:	No dangerous reactions known.

Section 11 – Toxicological Information

Acute Toxicity:		
98-54-4	4-tert-Butylphenole	
Oral	LD50	2951 mg/kg (rat)
Dermal	LD50	2288 mg/kg (rabbit)
Primary Irritation:		
- Skin:	Corrosive on skin and mucous membrane. Irritates skin and mucous membrane.	
- Eyes:	Strong corrosive reaction.	
- Sensibility:	Sensibility through contact with skin possible.	
Additional Information:	If ingested, highly corrosive to mouth and throat, as well as danger or perforation to esophagus and stomach.	

Section 12 – Ecological Information

Environment:	Toxic to aquatic systems. Do not allow product to reach into natural waterways, drains, storm water or wastewater systems.
General notes:	Water hazard class 2 (Self-assessment): hazardous for water.

Section 13 – Disposal Considerations

Waste Disposal Method:	Dispose of in a manner consistent with federal, state and local regulations. This includes pails containing uncured material. Pails with cured/hardened remains of product can be sent for recycling.
Recommendation:	Product mixed with resin and fully cured is ecologically safe and can be disposed to local refuse deposit.

Section 14 – Transport Information

USDOT (Domestic Surface):	UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III
IMDG (Ocean):	UN 2735 Amines, liquid, corrosive, NOS, (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine, m-phenylenebis (methylamine)) 8, PG III
IATA/ICAO (Air):	UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III

Section 15 – Regulatory Information

All raw materials are on the U.S., EPA, TSCA Inventory.

SARA Notification:	Nothing in this product is subject to regulation under SARA 302, 313. It may be subject to SARA 312 reporting, depending upon the purchaser's storage circumstances.
CERCLA:	No CERCLA chemicals exist in this product above reportable concentrations.
Clean Air Act Ozone-Depletion Potential:	This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section (40 CFR 61).

Section 16 – Other Information

(Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic)

HMIS III rating:

Health: 3* Flammability: 0 Physical hazard: 1

Abbreviations and acronyms:

USDOT:	United States Department of Transportation.
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
CAS:	Chemical Abstracts Service (Division of the American Chemical Society).
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.
EC50:	Median effective concentration.
RQ:	Reportable quantity.

This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Aquafin, Inc. for an updated SDS.

SDS prepared by: Aquafin product safety department.

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