

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EPOXY-N161 (Novolac) Part: B

SYNONYMS: PRODUCT CODES:

MANUFACTURER: Aquafin Inc.

ADDRESS: 505 Blue Ball Rd., #160 Chemtrec: (800) 255-3924

EMERGENCY PHONE:

PHONE: Elkton, MD 21921 +1-410-392-2300

RECOMENDED USE: Epoxy Resin, For further information refer to the Product Data Sheet.

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard:



ROUTES OF ENTRY: EYES: YES SKIN: YES INGESTION: YES INHALATION: YES

SIGNAL WORD: DANGER!

HEALTH HAZARDS (ACUTE AND CHRONIC)

EYES: Serious Eye Damage Cat. 2.

Eye irritation Cat. 2

SKIN: Acute Dermal Toxicity Cat.4

Skin Irritant Cat. 2 Skin Sensitization Cat. 1. Skin Corrosion Cat. 1B Acute Oral Toxicity Cat. 4

INHALATION: Acute Toxicity Cat 4

ENVIRONMENTAL HAZARDS:

INGESTION:

Acute Aquatic Cat.1 Chronic Aquatic Cat.1 Acute Toxicity Cat.4

HAZARD STATEMENTS:

H302+H312+H332 - Harmful if swallowed, inhaled or in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause am allergic skin reaction

H318 - Causes serioius eye damage

H332 - Harmful if inhaled

PRECAUTIONARY STATEMENTS:

P201 - Obtain special instructions before use

P202 - Do not handle until all safety regulations have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash...thoroughly after handling with soap and water

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear Protective gloves/protective clothing/eye protection/face protection

P301+P312 - IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 - IF SWALLOWED rinse mouth. DO NOT induce vomiting.

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

P303+P361+P353 - If ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with

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water/shower.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Persons with preexisting skin or respiratory disorders may have their conditions aggravated by over exposure to this material.

This product is not for use in an aerosol or spray. This product contains a component that is toxic by inhalation when aerosolized or sprayed. Refer to Section 11 of the SDS for toxicity information. Review the toxicity information against your intended use. If product is not being aerosolized or sprayed, inhalation toxicity is not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #:	CAL-OSHA PEL TWA (8hours)	ACGIH TLV TWA (8 hours)	Other Limits RECOMMENDED	% BY WEIGHT
2,2'-iminodiethylamine	111-40-0	No Data	No Data		30-50
Benzenediamine, ar, ar-diethyl-ar-methyl-	68479-98-1	No Data	No Data		30-50
2-sec-BUTYLPHENOL	89-72-5	No Data	No Data		30-50

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water for a minimum of 15 minutes while holding eyes open. Remove contact lenses if

present and easy to do. If redness, burning, blurred vision, or swelling persists, consult a physician.

SKIN: Remove contaminated clothing and product. Immediately wash affected area with soap and water. Do not apply

greases or ointments. If skin irritation persists, consult a physician.

INGESTION: Rinse mouth immediately. Give small amounts of water, only if person is conscious. Only induce vomiting at the

instruction of medical personnel. consult a physician

INHALATION: Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty

breathing, consult a physician. Call Poison Center

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Extinguish with foam, carbon dioxide, dry powder, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES:

Use standard fire-fighting procedures and consider the hazards of other involved

materials. In case of a fire and / or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from

entering streams, sewers, or drinking water supply.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products may occur when material polymerizes at

temperatures above 500 °F (260 °C). Irritating and toxic gases/fumes may be released during a fire. Do not allow run-off from fire-fighting to enter drains or water

courses.

FLASH POINT: 205 °F / 96 °C **METHOD USED:** (TCC)

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks,

or flames in immediate area). Wear appropriate personal protective equipment. Do not touch containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if

significant spillage cannot be contained.

ACCIDENTAL RELEASE MEASURES: In case of spill, clean up using absorbent material such as earth or sand. Small quantities can

be wiped up with cloth, place cloth in leak proof container and dispose of properly.

WASTE DISPOSAL: Observe Federal, State and local regulations covering chemical waste spills.

SECTION 7: HANDLING AND STORAGE

PERSONAL PROTECTION: Use personal protective equipment to ensure product does not contact eyes or skin when handling

materials.

HANDLING AND STORAGE: Store in cool dry place out of direct sunrays. Keep from freezing. Recommend storage temperatures

range: between 40° and 95 °F (4° - 35 °C)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE MEASURE: Wear appropriate personal protective equipment.

EYE PROTECTION: Wear appropriate safety glasses with side shields, goggles or full face shield. When working on an

overhead application a full face shield is recommended.

HAND PROTECTION: Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

SKIN AND BODY PROTECTION: Wear long sleeve shirts/long pants and other clothing as required to minimize contact.

RESPIRATORY PROTECTION: Do not breathe gas/fumes/vapor/ or spray. The use of a respirator is not required during general

use of this product provided adequate ventilation. If grinding or cutting cured product the use of an

approved respirator is recommended.

WORK HYGIENIC PRACTICES: Always observe good personal hygiene measures, such as washing after handling the material and

before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

ENGINEERING CONTROLS: When using indoors, good ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. Ready access to running water is required.

Provide eyewash station.

EXPOSURE LIMITS

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH (Pocket Guide)
2,2'-iminodiethylamine 111-40-0	No Data	No Data	No Data
Benzenediamine, ar, ar-diethyl-ar-methyl-68479-98-1	No Data	No Data	No Data
2-sec-BUTYLPHENOL – 89-72-5	No Data	TWA 5 ppm	TWA 30mg/m ³

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber liquid
ODOR: Ammonia
PHYSICAL STATE: Liquid
pH AS SUPPLIED: Alkaline
BOILING POINT: N/D
MELTING POINT: N/D
FREEZING POINT: N/D

VAPOR PRESSURE (mm Hg): 1 mmHg 20C (DETA)
VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H2O = 1): 1.0 **EVAPORATION RATE:** Negligible **SOLUBILITY IN WATER:** Slight PERCENT SOLIDS BY WEIGHT: No Data PERCENT VOLATILE: Negligible **VOLATILE ORGANIC COMPOUNDS (VOC):** No Data MOLECULAR WEIGHT: N/D VISCOSITY: 1400 cp.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Exposure to excessive heat and open flame INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids, peroxides and other oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-

Normal combustion forms carbon dioxide, carbon monoxide, oxides of carbon and other organic compounds,

PRODUCTS:

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

CAS#

Acute Oral Toxicity: No data available on the product itself

2,2'-iminodiethylamine 111-40-0 LD50: Oral Rat: 1080 mg/kg Benzenediamine,ar, ar-diethyl-ar- 68479-98-1 LD50: Oral Rat: 738 mg/kg

methyl-

2-sec-BUTYLPHENOL – 89-72-5 LD50: Oral Rat: 200-2000 mg/kg (OECD 401)

Acute Dermal Toxicity:

No data available on the product itself

2,2'-iminodiethylamine 111-40-0 LD50 1090 mg/kg Species: Rabbit Benzenediamine,ar, ar-diethyl-ar- 68479-98-1 LD50 Dermal Rabbit M : >2000 mg/kg

methyl-

2-sec-BUTYLPHENOL – 89-72-5 LD50 Dermal Rabbit : 5560 mg/kg
Acute Inhalation Toxicity: No data available on the product itself

Inhalation/toxicity Components

2,2'-iminodiethylamine 111-40-0 LC50 4 hours – 0.3mg/l Species: Rat

Carcinogenicity:

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

ACGIH: No data
IARC: No data
NTP No data
OSHA No data

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SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity: Exposure at low concentrations my kill fish Toxicity to Fish-Components

2,2'-iminodiethylamine 111-40-0 NA

Benzenediamine,ar, ar-diethyl-ar- 68479-98-1 LC50(96hr): 104 mg/l Species: Fathead Minnow

methyl-

ECOTOXICITY:

2-sec-BUTYLPHENOL – 89-72-5 LC50(96hr): 0.05 mg/l Species: Fish

CAS#

Toxicity to algae-Components

2,2'-iminodiethylamine 111-40-0 NA

Benzenediamine,ar, ar-diethyl-ar- 68479-98-1 EC50(72hr): 104 mg/l Species: Algae methyl-

memyi-

2-sec-BUTYLPHENOL – 89-72-5 EC50(72hr): 10 mg/l Species: Algae

Toxicity-Aquatic Invertebrates

2,2'-iminodiethylamine 111-40-0 NA

Benzenediamine,ar, ar-diethyl-ar- 68479-98-1 EC50(48hr): 5.8 mg/l Species: Daphnia

methyl-

2-sec-BUTYLPHENOL – 89-72-5 EC50(48hr): 3.7 mg/l Species: Daphnia

PERSISTENCE & DEGRADABILITY:

BIODEGRADABILITY:

2,2'-iminodiethylamine 111-40-0 NA

Benzenediamine,ar, ar-diethyl-ar- 68479-98-1 Not readily biodegradable

methyl-

2-sec-BUTYLPHENOL – 89-72-5 Biodegrades Slowly

BIOACCUMULATIVE POTENTIAL:

MOBILITY IN SOIL:

OTHER ADVERSE EFFECTS:

NDA

AQUATIC RELEASE: Advise authorities if product has entered or may enter watercourses or

sewer drains.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not allow this material to drain into sewers / waterways, ditches, containment pools or water

supplies. Dispose of contents / containers in accordance with local/regional/international

regulations.

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: Polyamines, Liquid, Corrosive, n.o.s. (Diethylenetriamine)

HAZARD CLASS: 8

ID NUMBER: UN2735
PACKING GROUP: II

WATER TRANSPORTATION (IMDG)

PROPER SHIPPING NAME: Polyamines, Liquid, Corrosive, n.o.s. (Diethylenetriamine), Marine Pollutant

HAZARD CLASS: 8

ID NUMBER: UN2735
PACKING GROUP: II

AIR TRANSPORTATION (IATA / ICAO)

PROPER SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s. (Diethylenetriamine)

HAZARD CLASS: 8

ID NUMBER: UN2735 PACKING GROUP: II

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE Not Listed

COMPENSATION, AND LIABILITY ACT):

OSHA: 29 CFR 1910.1200 (Hazard Communication required)
WHMIS Class D: Corrosive, Div.2, Sub. A&B; Class E

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302/304 No

311/312 HAZARD CATEGORIES: Acute Health Hazard: Yes

Chronic Health Hazard:

Fire Hazard:

Pressure Release Hazard:

No

Reactivity Hazard:

No

313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65 (THE SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT)

This product contains chemicals in trace quantities that are on the California Proposition 65 carcinogens list.

SECTION 16: OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM				
HMIS HAZARD RATING				
HEALTH	3			
FLAMMABILITY	1			
REACTIVITY	1			
PERSONAL PROTECTION	С			
4 - Severe, 3 - Serious, 2 - Moderate, 1 - Slight				
C - (Safety glasses, gloves, apron)				

The information provided herein was believed by Aquafin Inc. to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use.

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