

# BWT-106

SDS Number: 0106

Revision Date: 4/30/2020

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## 1 PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer**

Alliance Group Inc. 262-251-4977  
N114 W18621 Clinton Drive  
Germantown, WI 53022

**Phone:** 800-255-3924**Emergency:** CHEMTEL

**Product Identifier:** BWT-106  
**SDS Number:** 0106  
**Revision Date:** 4/30/2020  
**Chemical Family:** Alkanolamines  
**Product Use:** Water Treatment Compound

## 2 HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture****GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 3 Dermal  
Health, Skin corrosion/irritation, 1 B  
Health, Skin sensitization, 1  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Acute toxicity, 4 Inhalation  
Environmental, Hazards to the aquatic environment - Acute, 3  
Environmental, Hazards to the aquatic environment - Chronic, 3

**GHS Label Elements, Including Precautionary Statements****GHS Signal Word:** **DANGER****GHS Hazard Pictograms:****GHS Hazard Statements:**

H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

**GHS Precautionary Statements:**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.



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P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.  
 P361 - Remove/Take off immediately all contaminated clothing.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container in accordance with local, regional and international regulations.

### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

**Route of Entry:** Eyes; Inhalation; Ingestion; Skin.  
**Target Organs:** Respiratory system; Eyes; Skin;  
**Inhalation:** Can cause irritation and inflammation of the respiratory tract. .Prolonged inhalation may be harmful.  
**Skin Contact:** CORROSIVE. May cause irritation, tearing and redness. If absorbed through skin, may cause discomfort.  
**Eye Contact:** May cause irritation. May cause permanent eye damage.  
**Ingestion:** CORROSIVE. Aspiration hazard: Harmful or fatal if swallowed.

HMIS III: Health = 2(Chronic), Fire = 0, Physical Hazard = 0

HMIS		
HEALTH	<input checked="" type="checkbox"/>	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION	<input type="checkbox"/>	

### 3 COMPOSITION/INFORMATION OF INGREDIENTS

\*Substance/Mixture: Mixture

CAS#	Chemical %	Chemical Ingredients: Name:
110-91-8	2-5%	Morpholine
100-37-8	5-10%	Diethylethanolamine
54193-36-1	5-10%	2-Propenoic acid, 2-methyl-, homopolymer, sodium salt

### 4 FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. GET IMMEDIATE MEDICAL ATTENTION.

**Skin Contact:** Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.



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## 5 FIRE FIGHTING MEASURES

<b>Flammability:</b>	Not Flammable or Combustible.
<b>Flash Point:</b>	212 F
<b>Flash Point Method:</b>	No data available.
<b>Burning Rate:</b>	No data available.
<b>Autoignition Temp:</b>	No data available.
<b>LEL:</b>	No data available.
<b>UEL:</b>	No data available.

### Fire Fighting Methods

Evacuate area of unprotected personal. Wear protective clothing including NIOSH Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse vapors.

### Unusual Fire or Explosion Hazards:

Vapors are heavier than air and can settle in low or confined areas. Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame, or high intensity source of heat. This material may produce a floating fire hazard in extreme fire conditions.

### Extinguishing Media

**Suitable:** Water spray. Foam. Carbon dioxide. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable fire extinguisher:** No data available

## 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Evacuate area. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

### Spill

Keep upwind of leak or spill. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Use non-sparking tools and equipment.

## 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not puncture or drop containers. Do not expose containers to open flame, excessive heat, or direct sunlight. Take precautionary measures against static discharges. Use non-sparking tools and equipment. Do not add nitrites or other nitrosating agents. A nitrosamine, which may cause cancer, may be formed.

**Storage Requirements:** Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Explosive/flammable concentration of hydrogen gas may accumulate inside metals containers. Elevated temperatures will increase the corrosion rate of most metals. Citric acid can release explosive hydrogen gas if in contact with reactive metals (iron, zinc, aluminum). Do not store near food, foodstuffs, drugs or potable water supplies. Store in original containers.

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**8****EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls:** Provide local exhaust ventilation. Maintain adequate ventilation.

**Personal Protective Equipment:**

Hygiene Measures  
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory  
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Eyes and Face  
Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.

Skin  
Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use. Protective gloves: gauntlet-type, neoprene, nitrile.

<b>Component</b>	<b>OSHA PEL</b>	<b>ACGIH TWA/ TLV</b>
<b>Morpholine</b>	20 ppm TWA	20 ppm TWA (Skin)
<b>Diethylethanolamine</b>	2 ppm TWA	10 ppm TWA

**9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, Water white	<b>Odor:</b>	Amine.
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	No data available.
<b>Odor Threshold:</b>	No data available.	<b>Solubility:</b>	Complete.
<b>Particle Size:</b>	No data available.	<b>Softening Point:</b>	No data available.
<b>Spec Grav./Density:</b>	0.996	<b>Percent Volatile:</b>	No data available.
<b>Viscosity:</b>	No data available.	<b>Heat Value:</b>	No data available.
<b>Saturated Vapor Concentration:</b>	No data available.	<b>Freezing/Melting Pt.:</b>	32°F
<b>Boiling Point:</b>	212-326	<b>Flash Point:</b>	No data available.
<b>Flammability:</b>	No data available.	<b>Octanol:</b>	No data available.
<b>Partition Coefficient:</b>	No data available.	<b>Vapor Density:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.	<b>VOC:</b>	10%, 0.83 lbs/gal
<b>pH:</b>	11.7	<b>Bulk Density:</b>	No data available.
<b>Evap. Rate:</b>	No data available.	<b>Auto-Ignition Temp:</b>	No data available.
<b>Molecular weight:</b>	No data available.	<b>UFL/LFL:</b>	No data available.
<b>Decomp Temp:</b>	No data available.		

Lower Explosion Limits: 1.8- 6.7  
Upper Explosion Limits: 10.8-11.7

**10****STABILITY AND REACTIVITY**

**Reactivity:** No data available.

**Chemical Stability:** Product is stable under normal conditions.

**Conditions to Avoid:** Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Warning: Do not mix this product with nitrites or other nitrosating agents because nitrosamines may be formed. Nitrosamines may cause cancer.

**Materials to Avoid:** Strong Oxidizing Agents, acids, Sodium hypochlorites, calcium hypochlorites, nitrates, perchlorates, heat, isocyanates, nitrites. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces.



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<b>Hazardous Decomposition:</b>	Metals such as aluminum, zinc, tin, etc. Irritating and/or toxic gases. Carbon oxides, nitrogen oxides, ammonia. Nitrogen oxide can react with water to form corrosive nitric acid.
<b>Hazardous Polymerization:</b>	Will not occur under normal conditions.

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## TOXICOLOGICAL INFORMATION

### Toxicity Data:

**Eye Effects:** Vapors may cause eye irritation, excess redness, swelling, discomfort, tearing, pain. May cause serious eye damage/eye irritation if left untreated. Repeated exposure may cause conjunctivitis, corneal clouding, cataracts, retinal atrophy

- » Diethylaminoethanol - Eyes - Rabbit = severe eye irritation
- » Morpholine - Eyes - Rabbit = severe eye irritation

**Skin Effects:** May cause skin burns. Toxic if absorbed through skin. Causes symptoms such as reddening, swelling, rash, or blistering. Contact may cause tissue destruction, fissures, ulceration, bleeding, severe excess redness, dermatitis. Absorption may cause nausea, headache, general discomfort, liver injury, kidney injury.

- » Diethylaminoethanol - Dermal LD50 - Rabbit = 1113 mg/kg  
- Skin corrosion/irritation: rabbit - open irritation test
- » Morpholine - Dermal LD50 - Rabbit = 500 mg/kg  
- Skin corrosion/irritation: rabbit - severe skin irritation - 24 H

**Inhalation Effects:** May be harmful if inhaled. Product is destructive to the tissue of the mucous membranes and upper respiratory tract. Severe irritation and burns may result. Vapors or mists may cause: nasal discomfort and discharge, coughing, difficulty breathing, chest pain, vomiting, dizziness, drowsiness. Prolonged or repeated contact may cause: sensitization, damaged to the lungs, kidneys, liver.

- » Diethylaminoethanol - Inhalation LC50 - mouse = 5000 mg/m<sup>3</sup>
- » Morpholine - Inhalation LC50 - rat = 8000 ppm - 8H

**Ingestion Effects:** May be harmful if swallowed. Causes severe irritation and burns. May cause burns to the mouth, throat, esophagus, stomach. May cause abdominal discomfort, abdominal pain, nausea, vomiting, diarrhea, dizziness, faintness, thirst, collapse. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

- » Diethylaminoethanol - Oral LD50 - Rat = 1300 mg/kg
- » Morpholine - Oral LD50 - Rat = 1450 mg/kg

**Chronic Effects:** No data available.

**Teratogenicity:** No data available.

**Fertility Effects:** No data available.

**Mutagenicity: (Morpholine):** Mouse - lymphocyte - morphological transformation  
Hamster - ovary - sister chromatid exchange

**Carcinogenicity: (Morpholine) IARC: 3 - Group 3: not classifiable as to its carcinogenicity to humans**

**(Morpholine):** Mouse - oral=tumorigenic - neoplastic by RTECS criteria. Lungs, thorax, or respiration.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.

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## ECOLOGICAL INFORMATION

**Biodegradability:** No data available.

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**Ecotoxicity:****Toxicity to fish:**LC50- *Leuciscus idus* (Golden orfe) - 100-220 mg/L- 96 hr (Diethylethanolamine)LC50- *Oncorhynchus mykiss* (Rainbow trout) - 180-380 mg/L- 96 hr (Morpholine)**Toxicity to aquatic invertebrates:**C50- *Daphnia magna* (Water flea) - 83.6 mg/L- 48 hr (Diethylethanolamine)EC50- *Daphnia magna* (Water flea) - 80 mg/L- 48 hr (Morpholine)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**13****DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

RCRA: This material is not listed as a Hazardous Waste if and when it is discarded.

Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

**14****TRANSPORT INFORMATION**

UN3267, Corrosive liquid, basic, organic, n.o.s., 8, PGII, (Diethylethanolamine, Morpholine)

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**15****REGULATORY INFORMATION**

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

**FEDERAL REGULATIONS**

TSCA Inventory Status: All components of this product are listed "Active" on the Toxic Substances Control Act (TSCA) 8 (b) Inventory.

CERCLA / SARA Emergency Reporting A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements.

» **No components require reporting**



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Clean Water Act (CWA): The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. » **No components listed**

RCRA: The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes.

» **No components listed**

### STATE REGULATIONS

**California- Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer and/or reproductive harm

**Massachusetts - RTK Substances:** The following components are listed: Diethylethanolamine (CAS# 100-37-8), Morphonline (CAS# 110-91-8)

**New Jersey - RTK Substances:** The following components are listed: Diethylethanolamine (CAS# 100-37-8), Morphonline (CAS# 110-91-8)

**Pennsylvania - RTK Substances:** The following components are listed: Diethylethanolamine (CAS# 100-37-8), Morphonline (CAS# 110-91-8)

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### OTHER INFORMATION

Prepared By: P May

Reason For Revision: Updated GHS & Regulatory Information

#### Disclaimer:

This information is given in good faith and based on our current knowledge of the product. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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