SAFETY DATA SHEET
BELLACIDE 325

1. IDENTIFICATION

Product Name BELLACIDE 325
Chemical Name Aqueous dispersion of tertbutylazine
Product No. 100300, 100301, 100302, 100303, 100304, 100426, 100428, 100429, 101414, 101415, 101448
Identified uses Biocides for water treatment.
Supplier BWA Water Additives US LLC
1979 Lakeside Parkway
Suite 925, Tucker, GA30084
USA
T: +1 800 600 4523
T: +1 678 802 3050
E: msds@wateradditives.com
Chemetrec Phone: 1-800-424-9300

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW

EPA SIGNAL WORD: DANGER. EPA REGISTRATION No. 83451-9
Appearance Aqueous dispersion
Color White / off-white.
Odor Slight odor.
GHS Pictogram

Hazard Statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with national regulations.

GHS Classification

Physical and Chemical Hazards Not classified.
Human health Not classified.
Environment Aquatic Chronic 2 - H411

Inhalation
No specific health warnings noted.

Ingestion
May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin Contact
Non Irritant. Not a Skin Sensitiser

Eye Contact
Non irritant.
BELLACIDE 325

Health Warnings
No specific health warnings noted.

Route Of Entry
Skin and/or eye contact. Ingestion. Inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>N2-tet-BUTYL-6-CHLORO-N4-ETHYL-1,3,5-TRIAZINE-2,4-DIAMINE</th>
<th>4%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 5915-41-3</td>
<td></td>
</tr>
<tr>
<td>EC No.: 227-637-9</td>
<td></td>
</tr>
</tbody>
</table>

GHS Classification
Acute Tox. 4 - H302; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Composition Comments
4% aqueous dispersion of 2-(t-butylamino)-4-chloro-6-(ethylamino)-s-triazine in water

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation
Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

Ingestion
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact
Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye Contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed

Inhalation
No specific symptoms noted. Upper respiratory irritation.

Ingestion
No specific symptoms noted. May cause discomfort if swallowed.

Skin Contact
No specific symptoms noted. Prolonged skin contact may cause redness and irritation.

Eye Contact
No specific symptoms noted. May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician
Treat Symptomatically.

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)
Not available.

Flammability Limit - Lower(%)
Not applicable.

Flammability Limit - Upper(%)
Not applicable.

Flash point (°C)
Not available.

Extinguishing Media
This product is not flammable. Use: Water spray, foam, dry powder or carbon dioxide.
BELLACIDE 325

Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.

Specific Hazards

Special Fire Fighting Procedures
Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

Protective Equipment For Fire-Fighters
Leave danger zone immediately. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Follow precautions for safe handling described in this material safety data sheet. For personal protection, see section 8.

Environmental Precautions
Avoid release to the environment. To prevent release, place container with damaged side up.

Spill Clean Up Methods
Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Product has herbicidal properties. Minimise/prevent product from contacting soils or desirable plants.

Reference to other sections
For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling
Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

Storage
Store in tightly closed original container in a dry and cool place. Store at temperature below 50°C. Do not store for extended periods below freezing point or in direct sunlight. IF FROZEN: once fully thawed, agitate container vigorously to ensure the product is homogeneous. Keep separate from food, feedstuffs, fertilizers and other sensitive material.

Storage Class
Unspecified storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Comments
No exposure limits noted for ingredient(s).

Protective Equipment

Process Conditions
Provide eyewash station.

Engineering Measures
Provide adequate general and local exhaust ventilation.

Respiratory Equipment
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand Protection
Use protective gloves made of: Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Neoprene, nitrile, polyethylene or PVC. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye Protection
Wear approved safety goggles.
**BELLACIDE 325**

**Other Protection**
Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene Measures**
No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

**Skin Protection**
Wear apron or protective clothing in case of splashes.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Aqueous dispersion</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White / off-white</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Slight odor</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Miscible with water</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range (°C)</strong></td>
<td>100-101</td>
</tr>
<tr>
<td><strong>Melting point (°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.95 - 1.05 @ 20 ºC</td>
</tr>
<tr>
<td><strong>Vapor density (air=1)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Evaporation Factor</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH-Value, Conc. Solution</strong></td>
<td>6 - 9</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>400-1000 cP @ 20 ºC</td>
</tr>
<tr>
<td><strong>Decomposition temperature (°C)</strong></td>
<td>&gt; 179</td>
</tr>
<tr>
<td><strong>Odour Threshold, Lower</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Odour Threshold, Upper</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash point (°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Auto Ignition Temperature (°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability Limit - Lower(%)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flammability Limit - Upper(%)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Partition Coefficient (N-Octanol/Water)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Scientifically unjustified</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Does not meet the criteria for oxidising.</td>
</tr>
</tbody>
</table>

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### 10. STABILITY AND REACTIVITY

**Reactivity**
No specific reactivity hazards associated with this product.

**Stability**
Stable under normal temperature conditions and recommended use.

**Hazardous Polymerisation**
Will not polymerise.
# BELLACIDE 325

### Conditions To Avoid
Avoid excessive heat for prolonged periods of time.

### Materials To Avoid
Strong acids. Strong alkalis.

### Hazardous Decomposition Products
Toxic gases/vapors/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:
- **Acute Toxicity (Oral LD50)**
  - > 5000 mg/kg Rat

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity
The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

- **Acute Toxicity - Fish**
  - LC50 96 hours > 90 mg/l Onchorhynchus mykiss (Rainbow trout)
  - LC50 96 hours > 190 mg/l Lepomis macrochirus (Bluegill)

- **Acute Toxicity - Aquatic Invertebrates**
  - EC50 48 hours 985 mg/l Daphnia magna

### Degradability
Not inherently biodegradable

- **Chemical Oxygen Demand**
  - 0.1 g O2/g substance

### Bioaccumulative potential
The product does not contain any substances expected to be bio-accumulating.

### Partition coefficient
Not available.

### Mobility:
The product is miscible with water. May spread in water systems.

### Results of PBT and vPvB assessment
Not Classified as PBT/vPvB by current EU criteria.

### Other adverse effects
Not available.

## 13. DISPOSAL CONSIDERATIONS

### Waste Management
When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### Disposal Methods
Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

Material should be incinerated or otherwise disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

## 14. TRANSPORT INFORMATION

### General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

### Rail Transport Notes
Not classified.

### Sea Transport Notes
Not classified.

### Air Transport Notes
Not classified.

### DOT Hazard Class
Not regulated.

### DOT Hazard Label
No DOT label requirement noted

## 15. REGULATORY INFORMATION
BELLACIDE 325

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed.
CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed.
SARA 313 Emission Reporting
None of the ingredients are listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed.
Massachusetts "Right To Know" List
None of the ingredients are listed.
Rhode Island "Right To Know" List
None of the ingredients are listed.
Minnesota "Right To Know" List
None of the ingredients are listed.
New Jersey "Right To Know" List
None of the ingredients are listed.
Pennsylvania "Right To Know" List
None of the ingredients are listed.

Fifra Information
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION
Harmful if swallowed or absorbed through the skin or inhaled.

International Inventories
EU - EINECS/ELINCS
All ingredients are listed or exempt.
Canada – DSL/NDSL
All ingredients are listed or exempt.
US - TSCA
All ingredients are listed or exempt.
Australia - AICS
All ingredients are listed or exempt.
Japan – MITI
All ingredients are listed or exempt.
Korea - KECI
All ingredients are listed or exempt.
China - IECSC
All ingredients are listed or exempt.
Philippines – PICCS
All ingredients are listed or exempt.

16. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICAL</td>
<td>0</td>
</tr>
<tr>
<td>PERSONAL PROTECTION</td>
<td>⚠</td>
</tr>
</tbody>
</table>
General Information
For advice on chemical emergencies, spillages, fires or first aid in relation to this product please contact the relevant emergency number below:
EU/English Speakers - +44 (0) 1235 239 670 (NCEC)
Arabic Speakers - +44 (0) 1235 239 671
Asia/Pacific countries - +65 3158 1074
For emergencies within China - +86 10 5100 3039

Revision Comments
Conversion to GHS (HCS 2012 / WHMIS 2015)
Issued By BWA Water Additives Regulatory Group, +44(0)1618646699
Revision Date 10th March, 2015
Revision 4
Sds No. 11263

Disclaimer
For safety reasons it is IMPERATIVE that customers:-

1. Ensure that all those within their control who use the products are supplied with all relevant information contained within the Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions and warnings contained therein.

2. Consult BWA Water Additives before using or supplying the product for any other applications. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.