



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
Emergency Telephone	Chemtrec 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 P391 P501	Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with national regulations.
GHS Classification	Physical and Chemical Hazards Human health Environment	Not classified. Not classified. 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

N2-tert-BUTYL-6-CHLORO-N4-ETHYL-1,3,5-TRIAZINE-2,4-DIAMINE

4%

CAS No.: 5915-41-3

EC No.: 227-637-9

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

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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 (NO_x).

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.

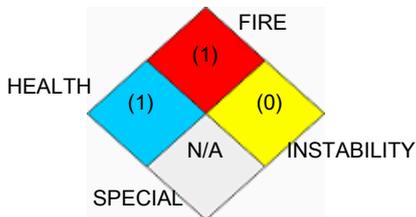
Phillippines – PICCS

All ingredients are listed or exempt.

16. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	1
FLAMMABILITY	1
PHYSICAL	0
PERSONAL PROTECTION	J

BELLACIDE 325**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)****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.