

MATERIAL SAFETY DATA SHEET
MSDS

HM-325

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Triazine 325 or BELLACIDE 325

SYNONYM (i): 2-(tert-butylamino)-4-chloro-6-(ethylamino)-s-triazine;
or terbuthylazine

GENERAL USE: Algaecide

DISTRIBUTOR/MANUFACTURER

HarChem Water Services
P.O. Box 310 Muldrow, OK
74948 918-427-0777

Emergency Telephone Number
479-806-0266
24 hours everyday

Regulatory Information Number
1-800-325-3751

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS# Wt. %

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

5915-41-3 1 - 4%

3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Product is stable under normal conditions of use. Under fire conditions toxic sulfur oxides and chlorine compounds may be released.

POTENTIAL HEALTH EFFECTS: Product has low oral and dermal toxicity and is not irritating to the eyes and skin.

4. FIRST AID MEASURES

EYES: Flush with plenty of water. Get medical attention if irritation occurs and persists.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

5. FIRE FIGHTING MEASURE

EXTINGUISHING MEDIA: This product is non-flammable. Carbon dioxide, foam, dry chemical, water spray

FIRE / EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus.

SENSITIVITY TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen and sulfur oxides, chlorine compounds and other toxic gases.

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Isolate area. Wear prescribed protective clothing and equipment. Dike to confine spill. Absorb with an absorbent. Shovel waste into an approved container and dispose of following the method outlined under the "Disposal Considerations" section. To decontaminate spill area, tools and equipment, wash with water and add to drums of waste already collected

7. HANDLING AND STORAGE

HANDLING: Avoid direct contact when handling this product.

STORAGE: Keep container closed when not in use. Protect from heat, flame and physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Under normal conditions of use, exposure should not be a significant concern. Use with general room ventilation or local exhaust when airborne contamination is expected. Under unusual or emergency conditions, the personal protective equipment indicated below is recommended.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use approved safety goggles.

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

PROTECTIVE CLOTHING: USE impervious gloves. Wear impervious apron and gauntlets when splashing is expected during liquid transfers. Wear normal work shoes except in conditions of spills where rubber overshoes or boots would be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slight chalky

APPEARANCE: Creamy off-white liquid suspension

pH: 6 to 9

PERCENT VOLATILE: Not available

VAPOR PRESSURE: Not available

VAPOR DENSITY: (Air = 1): Not applicable

BOILING POINT: 100-101 °C

FREEZING POINT: Not available

MELTING POINT: Not available

SOLUBILITY IN WATER: Miscible with water

DENSITY: 0.95 - 1.05 @ 20 °C

COEFF. OIL/WATER: Not available

ODOR THRESHOLD: Not available

OXIDIZING PROPERTIES: Not applicable

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid storage at extreme temperatures.

STABILITY: Stable

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen and sulfur oxides, chlorine compounds and other toxic gases.

INCOMPATIBLE MATERIALS: Strong acids and alkalis

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Non-irritant (rabbit)

SKIN EFFECTS: Non-irritant (rabbit)

Nonsensitizer (guinea pig)

DERMAL LD₅₀: >4400 mg/kg (rabbit)

ORAL LD₅₀: 1350 mg/kg (rat)

INHALATION LC₅₀: No date available for the product.

ACUTE EFFECTS FROM OVEREXPOSURE: Product has low oral and dermal toxicity and is not irritating to the eyes or skin.

CHRONIC EFFECTS FROM OVEREXPOSURE: Animal studies indicated effect on the liver, testes, thymus and stomach when product was applied dermally. Long-term animal studies with the active ingredient indicated toxic effects in lymph nodes, thymus and spleen following oral and dermal exposure; a small increased incidence of mammary tumors was noted in rats.

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

OTHER: ACGIH: Not listed

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available for the product. Information below is for terbutylazine, the major ingredient.

Fish Toxicity -

Bluegill: 96 hour LC50 - 7.6 ppm

Rainbow trout: 96 hour LC50 - 3.6 ppm

Daphnia magna: 48 hour EC50 - 39 ppm

Mallard duck: oral LD50 > 2510 mg/kg

Bobwhite quail: 8 day dietary LC50 > 5620 ppm

Mallard duck: 8 day dietary LC50 > 5620 ppm

CHEMICAL FATE INFORMATION: Sewage Bacterial Toxicity -Inhibitory concentration on respiration of aerobic waste water- IC20, IC50, IC80 > 100 ppm

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Open dumping or burning of this material is prohibited. An acceptable method of disposal is to burn in an incinerator in accordance with all local, state and federal environmental laws, rules, standards and regulation. The appropriate regulatory agencies should be contacted prior to disposal.

If the product was supplied in a single use container, care should be taken to dispose of the container in a responsible manner and in accordance with applicable regulations. Label precautions should be followed for any residual material in the container. Whenever possible, our company encourages recycling of containers.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) : No DOT label requirement.

PROPER SHIPPING NAME: Not regulated

PRIMARY HAZARD CLASS/DIVISION: Not applicable

UN/NA NUMBER: None

PLACARDS: Not required

LABEL: Not required

OTHER SHIPPING INFORMATION:

DOT Marking- Not required

Hazardous Substance/RQ: Not applicable

49 STCC Number. Not available

SPECIAL SHIPPING NOTTS: IMDG: Not regulated

IATA: Not regulated

Keep container tightly closed. Protect against physical damage.

15. REGULATORY INFORMATION

UNITED STATES

- SARA TITLE III (SUPERFUND AMENDMENTS AND RE AUTHORIZATION ACT)

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): Not listed

SECTION 311 HAZARD CATEGORY (40 CFR 370): Delayed (chronic) health hazard

SECTION 311 THRESHOLD PLANNING QUANTITIES (40 CFR 370): 10,000 lbs.

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372): Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA REGULATORY (40 CFR 302.4): Not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS (40 CFR 710): Listed (components)

STATE REGULATIONS

PROPOSITION 65: This product does not contain any substances which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Product Identification No.: Not available

Hazard Classification: Not evaluated for Canada

Disclosure Law: Not evaluated for Canada

Domestic Substance List: Not evaluated for Canada

16. OTHER INFORMATION

HMIS Labeling: Health = 1 Flammability = 0 Physical = 0 Personal Protection = J

NFPA Health = 1 Fire = 0 Instability = 0 Special = n/a

REVISION SUMMARY Revision # 4

This MSDS replaces the 01-24-2010MSDS.