



MATERIAL SAFETY DATA SHEET (MSDS)

1. Product Identification and Company Details

PRODUCT NAME: Wintrol® B-40Na

TRADE NAME: Wintrol® B-40Na

PRODUCT CODES: 30BT040L

MANUFACTURER: Wincom, Inc.

ADDRESS: 11444 Deerfield Rd., Ste B
Cincinnati, Ohio 45242

PHONE: (513) 936-0185

EMERGENCY: CHEMTEL PHONE: (800) 255-3924

FAX PHONE: (513) 936-0068

CHEMICAL NAME/SYNONYMS: 1H-Benzotriazole-Sodium Salt, Sodium Benzotriazole

CHEMICAL FAMILY: Triazole

CHEMICAL FORMULA: C₆H₄N₃Na

PRODUCT USE: Corrosion Inhibitor

Revision Date: 12/30/2010

*All non-emergency questions should be directed to customer service @ (513) 936-0185 or customerservice@wincom-inc.com *

2. Composition/Information on Ingredients

<u>COMPONENT</u>	<u>CAS #</u>	<u>% by Weight</u>	<u>EXPOSURE LIMITS</u>
Sodium Benzotriazole	15217-42-2	39-41	Not assigned
Sodium Hydroxide	1310-73-2	20-25	2 mg/m ³
Water	7732-18-5	40-45	

3. Hazard Identification:

EMERGENCY OVERVIEW: Harmful by vapor inhalation (irritant) and if swallowed (harmful). Vapor may be irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

EYES: Flush eyes with water for 15 minutes. Cold water must be used. Get medical attention if irritation persists.

SKIN: Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use.

INGESTION: Wash out mouth thoroughly with water and give plenty of water to drink. Do not induce vomiting unless told by a medical professional. Obtain medical attention.

INHALATION: Remove from exposure, get fresh air. If problems remain or occur later, get medical attention.



5. Fire Fighting Measures

FLAMMABLE LIMITS IN AIR, (% BY VOLUME) LOWER: Data not available

FLASH POINT:

F: 273

C: 134

METHOD USED: DIN 51758

AUTOIGNITION TEMPERATURE:

F: Data Not available

C: Data Not available

METHOD USED: DIN 51794

EXTINGUISHING MEDIA: Water spray, fog or foam. Do not use water jet.

6. Accidental Release Measures

SPILL & CLEAN UP: Use proper personal protective equipment. Isolate and secure the area and follow the appropriate emergency guidelines. If local high concentration of airborne mist occurs, dilute spill with plenty of water and ventilate to disperse mist-laden air. Sweep up spill and reclaim or place in a covered waste disposal container. Report spill to proper authorities.

7. Handling and Storage

HANDLING AND STORAGE: Store in cool, dry, ventilated area away from any heat source. Keep containers tightly closed and in an upright position when not in use.

OTHER PRECAUTIONS: Product freeze point between -5°C to -10°C.

SECTION 7 NOTES: Change contaminated clothing. Wash hands well after working with substance.

8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: Use ventilation if possible, e.g., fans or exhaust systems to keep vapor levels below recommended exposure limits.

VENTILATION : Provide natural or mechanical ventilation for mist and vapor control.

RESPIRATORY PROTECTION: If good ventilation is not available, wear a respiratory device approved by NIOSH/MSHA for protection against organic vapors, mists and dust. If handling large quantities, use a certified SCBA apparatus.

EYE PROTECTION: Wear safety glasses with un-perforated side shields.

SKIN PROTECTION: Wear chemical resistant gloves for long and repeated contact. Contaminated clothing and shoes should be cleaned before reusing.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety shower/eye wash

WORK HYGIENIC PRACTICES: Acceptable industrial hygiene practices should be maintained.



9. Physical & Chemical Properties

APPEARANCE: Clear yellow to light amber liquid

ODOR: Light sweet odor

MOLECULAR WEIGHT: 141.15

PHYSICAL STATE: Liquid

BOILING POINT: 100°C

VAPOR PRESSURE: 25 mbar @ 20°C

SOLUBILITY IN WATER: Miscible

OTHER SOLUBILITIES: Soluble in benzene, toluene, chloroform, diethylene glycol and some alcohols

PERCENT VOLATILE: 60%

pH: 11.2-11.7

SODIUM CHLORIDE (PPM)(NaCl): 50 Maximum

LOG P (OCTANOL-WATER): Log K_{ow}: 1.44 (Benzotriazole)

FREEZE POINT (°C): -5 to -10

SPECIFIC GRAVITY (25°C): 1.140 Minimum

SPECTRAL PROPERTIES (Benzotriazole Data): **IR:** 1561 (Coblentz Society Spectral Collection) **UV:** 465 (Sadler Research Laboratories Spectral Collection) **NMR:** 6410 (Sadler Research Laboratories Spectral Collection) **MASS:** 470 (Atlas of Mass Spectral Data, John Wiley & Sons, New York)

SECTION 9 NOTES: The above chemical properties are a compilation of data from the NTP and Wincom, Inc.

10. Chemical Stability & Reactivity Information

STABILITY: Stable

INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing Agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: **FIRE:** Nitrogen oxides, carbon monoxide and carbon dioxide.
HCN in reducing atmospheres

HAZARDOUS POLYMERIZATION: Will not occur

11. Toxicological Information

No data is currently available for sodium benzotriazole, data below is for benzotriazole

TOXICOLOGICAL INFORMATION:

Oral LD₅₀ (Rat): = 560 mg/kg

Dermal LD₅₀ (Rabbit): > 2,000 mg/kg

Eye irritation (Rabbit): Causes eye irritation

Skin irritation (Rabbit): Not a primary skin irritant

In a test for primary skin irritation and sensitization on guinea pigs, 1-H-benzotriazole was at most mildly irritating in concentrations up to 50% in ethanol and was not a sensitizer. The dry powder is severely irritating to the rabbit eyes (0.1 ml unwashed) but prompt water washing reduces irritation considerably. [Clayton, G.D., F.E. Clayton (eds.) Patty's Industrial Hygiene and Toxicology. Volumes 2A, 2B, 2C, 2D, 2E, 2F: Toxicology. 4th ed. New York, NY: John Wiley & Sons Inc., 1993-1994., p. 3347(NTP WEBSITE)]

HUMAN TOXICITY LEVELS: NONE FOUND



12. Ecological Information

ECOLOGICAL INFORMATION:

SPILL & CLEAN UP: Use proper personal protective equipment. Isolate and secure the area and follow the appropriate emergency guidelines Report the spill to the EPA.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations regarding pollution.

CERCLA REPORTABLE QUANTITY (RQ): N/A

AQUATIC TOXICITY (Benzotriazole): LC₅₀: 100 mg/l (*Brachydanio rerio*, otherwise known as "zebra fish")

13. Disposal Considerations

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

14. Transportation Information

DOT SHIPPING: Corrosive liquid, Basic, Organic, N.O.S. (Sodium Tolyltriazole)

DOT HAZARD CLASS: 8, PG III

UN/NA Number: UN3267

15. Regulatory Information

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): 8(b) inventory: **Benzotriazole, Sodium Salt**

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (239-269-6)

WORLDWIDE CHEMICAL INVENTORY STATUS: USA,TSCA,CANADA and DSL

CALIFORNIA PROPOSITION 65: None of the components in Wintrol® B-40Na are in the current P-65 chemicals list

HMIS HAZARD CLASSIFICATION

HEALTH: 3

FLAMMABILITY: 1

PHYSICAL HAZARD: 1

PROTECTION: C

16. Other Information

PREPARATION INFORMATION: Prepared on 30th December 2010, Supersedes 26 April 2010.

DISCLAIMER:

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