



MATERIAL SAFETY DATA SHEET (MSDS)

1. Product Identification and Company Details

PRODUCT NAME: Wintrol® MBT

TRADE NAME: Wintrol® MBT, Wintrol® MBT-C

PRODUCT CODES: 30MT100P, 30MT100C

DISTRIBUTOR: 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: Mercaptobenzothiazole

CHEMICAL FAMILY: Triazole

CHEMICAL FORMULA: C₇H₅S₃N

PRODUCT USE: Corrosion Inhibitor

Revision Date: 8/12/2011

*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>
Mercaptobenzothiazole	149-30-4	95.0 – 99.9	Lower 15.0%

3. Hazard Identification:

EMERGENCY OVERVIEW: Harmful by inhalation (irritant) and if swallowed (irritant). 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. 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: Self-Contained Breathing Apparatus should be worn. 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: Not Available

FLASH POINT:

F: 469

C: 243

METHOD USED: DIN 51758

AUTOIGNITION TEMPERATURE:

F: 869

C: 465

METHOD USED: Unavailable

EXTINGUISHING MEDIA: Carbon dioxide, dry-chemical or universal type foam.

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 dust occurs, dampen spill with water and ventilate to disperse dust-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: Avoid generation of dusts. Allergic reactions to this product have been documented by the National Toxicology Program.

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 airborne levels below recommended exposure limits.

VENTILATION : Provide natural or mechanical ventilation for dust control.

RESPIRATORY PROTECTION: If good ventilation is not available, wear a respiratory device approved by NIOSH/MSHA for protection against 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: Light yellow to yellow powder

ODOR: Musty Sulfur Odor

MOLECULAR WEIGHT: 167.25 g/mol

PHYSICAL STATE: Solid

BOILING POINT: None Found

MELTING POINT: 179 °C

VAPOR PRESSURE (mmHg): None Found

SOLUBILITY IN WATER: 0.1 wt % @ 19°C

OTHER SOLUBILITIES: Soluble in methanol, ethanol and acetone, ether, benzene, hot acetic acid

PERCENT VOLATILE: None

LOG P (OCTANOL-WATER): Log K_{ow} 2.41

SPECTRAL PROPERTIES: MAX ABSORPTION (METHANOL): 235 NM (LOG E= 4.12); 282 NM SHOULDER (LOG E= 3.34); 320 NM (LOG E= 4.43); SADTLER REF NUMBER: 11493 (IR, PRISM); 8139 (IR, GRATING) Intense mass spectral peaks: 167 m/z (100%), 69 m/z (33%), 45 m/z (23%), 63 m/z (20%)

SECTION 9 NOTES: The above chemical properties are a compilation of data from the NTP, Chemdraw 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

TOXICOLOGICAL INFORMATION:

Oral LD₅₀ (Rat): = 1558 mg/kg

Dermal LD₅₀ (Rabbit): > 1,000 mg/kg

HUMAN TOXICITY LEVELS: ALLERGIC CONTACT DERMATITIS CAN OCCUR IN PERSON USING IT. SAME PERSON IS ALSO APT TO BE ALLERGIC TO NUMBER OF RUBBER ITEMS INCL SPANDEX

12. Ecological Information

ECOLOGICAL INFORMATION:

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 dust occurs, dampen spill with water and ventilate to disperse dust-laden air. Sweep up spill and reclaim or place in a covered waste disposal container.

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

AQUATIC TOXICITY:



Minnow (96 hr. Tlm)	0.025 mg/l
Trout (96 hr. Tlm)	0.6 – 0.96 mg/l

Mercaptobenzothiazole has a low to moderate mobility in soil, leaching may occur in alkine soil

13. Disposal Considerations

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

14. Transportation Information

DOT CLASSIFICATION: This product is currently not a DOT controlled material in the United States.

15. Regulatory Information

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): 8(c)/40CFR 712 Preliminary Assessment Rule
8(d) Health and Safety Data Rule

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances 205-736-8

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

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

HMIS HAZARD CLASSIFICATION

HEALTH: 2
PROTECTION: E

FLAMMABILITY: 1

PHYSICAL HAZARD: 0

16. Other Information

PREPARATION INFORMATION: Prepared on the 12th of August 2011, Supersedes the 1st of January 2004.

DISCLAIMER:

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Wincom hereunder are given gratis and Wincom assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.