



Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TB Plus
SYNONYMS: NA
PRODUCT CODES: 100323

MANUFACTURER: Theochem Laboratories Inc
ADDRESS: 7373 Rowlett Park Drive
Tampa, FL 33610-1141

EMERGENCY PHONE: ChemTel: North America: 1-800-255-3924
International: +01-813-248-0585

CHEMICAL NAME: Mixture
CHEMICAL FAMILY: NA
CHEMICAL FORMULA: NA
PRODUCT USE: Hard Surface Disinfectant, Mildewstat and Fungicide
PREPARED BY: TB
REVISION NUMBER: 1.1
MSDS REVISION DATE: 05/10/07

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

The product may contain additional non-hazardous or trade-secret components.

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Diethylene Glycol				
Monobutyl Ether	112-34-5	< 9%	NA	No
Alkyl (60 %C ₁₄ , 30 %C ₁₆ , 5 % C ₁₂ , 5 % C ₁₈) Dimethyl Benzyl Ammonium Chloride	53516-76-0	< 1 %	NA	No
Alkyl (68 %C ₁₂ , 32 %C ₁₄) Dimethyl Ethylbenzyl Ammonium Chloride	85409-23-0	< 1 %	NA	No
Sodium Metasilicate	6834-92-0	< 1 %	NA	No

Diethylene Glycol Monobutyl Ether

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	NA	NA
OSHA PEL STEL:	NA	NA
OSHA PEL CEILING:	NA	NA
ACGIH TLV-TWA:	NA	NA
ACGIH TLV STEL:	NA	NA
ACGIH TLV CEILING:	NA	NA

Alkyl (60 %C₁₄, 30 %C₁₆, 5 % C₁₂, 5 % C₁₈) Dimethyl Benzyl Ammonium Chloride

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	NA	NA
OSHA PEL STEL:	NA	NA
OSHA PEL CEILING:	NA	NA

ACGIH TLV-TWA:	NA	NA
ACGIH TLV STEL:	NA	NA
ACGIH TLV CEILING:	NA	NA

Alkyl (68 %C₁₂, 32 %C₁₄) Dimethyl Ethylbenzyl Ammonium Chloride

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	NA	NA
OSHA PEL STEL:	NA	NA
OSHA PEL CEILING:	NA	NA

ACGIH TLV-TWA:	NA	NA
ACGIH TLV STEL:	NA	NA
ACGIH TLV CEILING:	NA	NA

Sodium Metasilicate

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	NA	2 mg/m ³
OSHA PEL STEL:	NA	NA
OSHA PEL CEILING:	NA	NA

ACGIH TLV-TWA:	NA	2 mg/m ³
ACGIH TLV STEL:	NA	NA
ACGIH TLV CEILING:	NA	NA

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTE(S) OF ENTRY:

POTENTIAL HEALTH EFFECTS SHORT TERM/ACUTE EXPOSURE:

Eyes: Yes **Inhalation:** Yes **Skin:** Yes **Ingestion:** Unlikely

EYES: Contact can cause severe damage with redness, irritation and tearing.

SKIN: Contact can cause severe irritation of the skin.

INHALATION: Respiratory irritation. Burning pain in mouth or throat.

INGESTION: Burning pain in mouth, throat, abdomen, severe swelling larynx, skeletal muscle paralysis affecting breathing, circulatory shock or convulsions. May be fatal if Swallowed

CHRONIC HEALTH HAZARDS: No further data known

CARCINOGENICITY: NTP: No ARC Monographs: No OSHA Regulated: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing eye, skin and respiratory disorders.

SECTION 4: FIRST AID MEASURES

EYES: Flush with large amounts of running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

SKIN: Remove contaminated clothing immediately. Launder before re-wearing. Wash exposed area with soap & water. Seek medical attention.

INGESTION: Drink promptly, a large quantity of water. Seek immediate medical attention or contact poison control center.

INHALATION: Move to fresh air. Get medical attention if irritation persists.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES: .

FLAMMABLE LIMITS IN AIR, UPPER: Not Established
(% BY VOLUME) **LOWER:** Not Established

FLASH POINT: (Closed Cup): NA
FLAMMABLE LIMITS: Not Established

AUTOIGNITION TEMPERATURE: None Known

NFPA HAZARD CLASSIFICATION
HEALTH: 2 **FLAMMABILITY:** 0 **REACTIVITY:** 0 **OTHER:** NA

HMS HAZARD CLASSIFICATION
HEALTH: 2 **FLAMMABILITY:** 0 **REACTIVITY:** 0 **PROTECTION:** NA

EXTINGUISHING MEDIA: Water Fog, Foam, CO₂ or Dry Chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Liquid is soluble in water & easily diluted.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

CLEAN-UP MEASURES: Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills should be recovered for disposal. Waste materials should be disposed of in accordance with all local, state and federal regulations. Transfer contaminated absorbent, soil and other materials to containers for disposal

SECTION 7: HANDLING AND STORAGE

HANDLING: As with any chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices. Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty containers.

STORAGE: Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition.

OTHER PRECAUTIONS: For Industrial & Institutional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. The user may wish to refer to 29 CFR 1910.1000(d)(2) and the ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

RESPIRATORY PROTECTION: None needed unless TLV is exceeded. NIOSH respirator is necessary.

EYE PROTECTION: Wear protective eyewear to prevent accidental exposure. Safety glasses with side shields, chemical goggles or face shield.

SKIN PROTECTION: Rubber or Neoprene

OTHER PERSONAL PROTECTIVE EQUIPMENT: Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I.

HYGIENIC PRACTICES: Wash hands after use. Keep containers closed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colorless Liquid
ODOR:	Floral Odor
PHYSICAL STATE:	Liquid
pH AS SUPPLIED:	11.8 ± 0.3
BOILING POINT:	NA
MELTING POINT:	Liquid
FREEZING POINT:	Not established
VAPOR PRESSURE (mmHg):	Same as water
VAPOR DENSITY (AIR = 1):	Same as water
SPECIFIC GRAVITY:	1.012
EVAPORATION RATE:	NA
SOLUBILITY IN WATER:	Complete
PERCENT SOLIDS BY WEIGHT:	Not established
PERCENT VOLATILE BY WEIGHT:	Not established
MOLECULAR WEIGHT:	Mixture
VISCOSITY:	Not Established

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is Stable

CONDITIONS TO AVOID (STABILITY): High Temperatures.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong Oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Toxic hydrogen chloride, oxides of carbon & nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): Will not polymerize.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE EFFECTS: No further toxicological data known.

SKIN EFFECTS:No further toxicological data known.

ORAL EFFECTS: No further toxicological data known.

INHALATION EFFECTS: No further toxicological data known.

OTHER: No further data known.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

ENVIRONMENTAL FATE: Unknown

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing, or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

RCRA HAZARD CLASS: NA

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:	Disinfectant, Corrosive, Liquids, (Contains Quaternary Ammonium Compounds)
HAZARD CLASS:	Class 8
ID NUMBER:	NA1903
PACKING GROUP:	PG III
EXCEPTIONS: 1 gallon and 1 quart bottles	173.154 Consumer Commodity (ORM-D)
LABEL STATEMENT:	Caution
WATER TRANSPORTATION	Not applicable
AIR TRANSPORTATION	Not applicable
OTHER AGENCIES:	Not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

SARA 313: This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CLEAN WATER ACT / OIL POLLUTION ACT: This product contains none of the chemicals subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

CERCLA REPORTABLE QUANTITY: Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Release of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

COMPONENT: None

TOXIC SUBSTANCES CONTROL ACT: The components of this product are listed on the TSCA Inventory.

OZONE DEPLETING SUBSTANCES: This product contains no ozone depleting substances as defined by the Clean Air Act.

HAZARDOUS AIR POLLUTANTS: Any components listed below are defined by the Federal EPA as hazardous air pollutants.

COMPONENT: None

STATE REGULATIONS: Check with the appropriate state agency to determine whether regulations exists.

INTERNATIONAL REGULATIONS: NA

SECTION 16: OTHER INFORMATION

PREPARED BY: Department of Regulatory Compliance

DATE OF ISSUE: 3/06/06

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We believe the information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.