



## Material Safety Data Sheet

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Moldstat Plus  
**SYNONYMS:** NA  
**PRODUCT CODES:** 100352  
**EPA REG. NUMBER:** 10324-72-9367  
**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:** Disinfectant, Mildewstat and Fungicide  
**PREPARED BY:** TGD  
**REVISION NUMBER:** 1.2  
**MSDS REVISION DATE:** 02/02/2010

### 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>
ALKYL (C <sub>12</sub> , -C <sub>16</sub> ) DIMETHYL BENZYL AMMONIUM CHLORIDE	68424-85-1	8.68%	NA	No
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	32426-11-2	6.51%	NA	No
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	5538-94-3	3.26%	NA	No
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	3.25%	NA	No
SODIUM METASILICATE	6834-92-01	1.5%	NA	No

ALKYL (C<sub>12</sub>, -C<sub>16</sub>) 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

OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:	400 ppm	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

DIOCTYL DIMETHYL 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 <sup>3</sup>
OSHA PEL STEL:	NA	NA
OSHA PEL CEILING:	NA	NA
ACGIH TLV-TWA:	NA	2 mg/M <sup>3</sup>
ACGIH TLV STEL:	NA	NA
ACGIH TLV CEILING:	NA	NA

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**SECTION 3: HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:**

**ROUTE(S) OF ENTRY:**

**POTENTIAL HEALTH EFFECTS SHORT TERM/ACUTE EXPOSURE:**

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

**EYES:** Causes burns and may result in permanent injury to eyes including blindness.

**SKIN:** Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through skin.

**INHALATION:** Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled.

**INGESTION:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea and possibly death. Harmful 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.

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Flush with large amounts of running water for at least 15 minutes while holding upper and lower lids open. Remove contact lenses if present after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**SKIN:** Remove contaminated clothing immediately. Launder before rewearing. Wash exposed area with soap & water. Seek medical attention.

**INGESTION:** Drink promptly, a large quantity of water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention or contact poison control center.

**INHALATION:** If symptoms are experienced, move to fresh air. Get medical attention if irritation persists. If person is not breathing call 911 or an ambulance, then give artificial respiration (CPR).

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

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#### SECTION 5: FIRE-FIGHTING MEASURES

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**FIRE AND EXPLOSIVE PROPERTIES:** .

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

**FLASH POINT:** (Closed Cup): Over 200 °F (over 94° C)  
**FLAMMABLE LIMITS:** Not Established

**AUTOIGNITION TEMPERATURE:** None Known

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 2                      **FLAMMABILITY:** 1                      **REACTIVITY:** 0                      **OTHER:** NA

**HMIS HAZARD CLASSIFICATION**

**HEALTH:** 2                      **FLAMMABILITY:** 1                      **REACTIVITY:** 0                      **PROTECTION:** NA

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, Water Fog, Dry Chemical. Solid water streams may spread burning liquid.

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Irritating and toxic gases or fumes may be released during a fire.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**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

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#### SECTION 7: HANDLING AND STORAGE

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**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 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.

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**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:** Provide adequate local exhaust ventilation. ~~None needed unless TLV is exceeded.~~ If irritation is experienced a NIOSH approved respirator maybe necessary.

**EYE PROTECTION:** Wear appropriate 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.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Green Liquid
<b>ODOR:</b>	Floral Odor
<b>PHYSICAL STATE:</b>	Liquid
<b>pH AS SUPPLIED:</b>	13.0 ± 0.3
<b>BOILING POINT:</b>	NA
<b>MELTING POINT:</b>	Liquid
<b>FREEZING POINT:</b>	Not established
<b>VAPOR PRESSURE (mmHg):</b>	Same as water
<b>VAPOR DENSITY (AIR = 1):</b>	8.33
<b>SPECIFIC GRAVITY):</b>	1.04
<b>EVAPORATION RATE:</b>	NA
<b>SOLUBILITY IN WATER:</b>	Complete
<b>PERCENT SOLIDS BY WEIGHT:</b>	Not established
<b>PERCENT VOLATILE BY WEIGHT:</b>	Not established
<b>MOLECULAR WEIGHT:</b>	Mixture
<b>VISCOSITY:</b>	Not Established

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#### SECTION 10: STABILITY AND REACTIVITY

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**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.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**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.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**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

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**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

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

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

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**SECTION 15: REGULATORY INFORMATION**

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**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

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**SECTION 16: OTHER INFORMATION**

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**PREPARED BY:** Department of Regulatory Compliance

**DATE OF ISSUE:** 5/10/07

**DATE OF LAST REVISION:** 02/02/2010

*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.*