



Release Innovation™

## MATERIAL SAFETY DATA SHEET (MSDS)

EMERGENCY TELEPHONE (019) 3881-8220

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **MOLD CLEANER MC-501**

MANUFACTURER'S NAME: CHEM-TREND INDÚSTRIA INC. & CIA.

ADDRESS: Rua Antônio Felamingo, 529 - Bairro Macuco - Valinhos/SP - BRASIL

CHEMICAL FAMILY: Release blend in organic solvent.

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	Concentration	CAS Number
1. Toluene	55 - 60%	108-88-3
2. MEK	40 - 45%	78-93-3

\* Ingredients are nonhazardous (based on supplier's MSDS forms) as compounded, when the product is used as directed.

\*\* Ingredients are registered in the TSCA Inventory

### 3. HAZARDS IDENTIFICATION

LISTED CARCINOGENS (NTP, IARC OR OSHA): None.

ROUTES OF EXPOSURE AND ACUTE EFFECTS:

Note: The following hazards described below are those of the solvent system.

Skin contact	Prolonged or repeated contact can defat skin which may cause irritation or dermatitis. Avoid skin contact.
Eye contact	Liquid product splashed in the eye probably irritate the eye.
Inhalation	Vapor concentrations above the TLV may cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. At very high levels, anesthesia and asphyxiation are possible.
Ingestion	May cause gastrointestinal (digestive) tract irritation. Acute oral toxicity of the solvent mixture has been measured but is assumed to be low on the basis of knowledge of the components. If product is accidentally swallowed, DO NOT induce vomiting because of the danger of aspiration of the solvent into the lungs, which can be fatal due to chemical pneumonitis.
Chronic Effects	A review of literature does not show obvious long-term hazard.
Other Hazards	Not applicable.

### 4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

Skin contact	Wash with soap and water. Launder contacted clothing before reuse.
--------------	--

### PRODUCT APPLICATION AND SAFETY DATA SHEET

Product : **MOLD CLEANER MC-501**

Date: December 22, 2008 by Diego Monteiro

Page 1 of 4

Eye contact	Flush with water for at least 15 minutes. Contact a physician.
Inhalation	If adverse effects such as dizziness, nausea or irritation are noted, move to fresh air. Contact a physician.
Ingestion	If product is swallowed, DO NOT induce vomiting. Contact a physician immediately.

## 5. FIRE FIGHTING MEASURES

FLASH POINT (°C): 7 (Method used: Pensky-Martens).

DANGER: FLAMMABLE: Keep away from heat, sparks and flames.

EXTINGUISHING MEDIA: Use foam, carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fire fighting in a confined space.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

CONTAINER HANDLING: Do not cut, puncture or weld on empty drums because it may contain explosive or harmful vapors.

## 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Small spills	Soak up with absorbent material.
Large spills	Eliminate all sources of ignition. Vapors are heavier than air and may spread long distances or collect in low spots. Dike area to prevent runoff, recover liquid, soak up remaining liquid with absorbent material.

## 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Ground all equipment pumping the product. Protect from static electrical sparks or other ignition sources. Store away from strong oxidizers. Do not store at temperatures above 108°F(38°C) to avoid vapor pressure in closed containers. Keep containers closed when not in use.

Do not add any other additive ingredients to the product.

OTHER PRECAUTIONS: None known.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	Good industrial hygiene practices recommended that engineering controls (such as local and/or mechanical ventilation) be used to reduce environmental concentrations to the permissible exposure level. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented. If the use of a respirator is necessary use only a MSHA/NIOSH approved air supplied respirator or an air-purifying respirator.
------------------------	---

## PRODUCT APPLICATION AND SAFETY DATA SHEET

Product : **MOLD CLEANER MC-501**

Date: December 22, 2008 by Diego Monteiro

Page 2 of 4

Protective Gloves	Impervious gloves (such as rubber) when handling the product.
Eye Protection	Safety glasses with side shields or chemical goggles.
Other Protective Equipment.	Appropriate clothing to avoid skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C)	77 (initial)
Specific Gravity (g/cm <sup>3</sup> )	0.77□□
Vapor Pressure (mmHg)	44□□
Vapor Density (air=1)	> 1
Percent Volatile by Weight (%)	100%
Evaporation Rate (water=1)	> 1
Solubility in water	Imiscible
pH (concentrate)	Not applicable
Appearance and odor	Limpid Liquid; solvents and ketone odor

## 10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY: Store away from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrocarbon decomposition products and formaldehyde at elevated temperatures.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

## 11. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.

This product does not fall under current EPA RCRA definitions of hazardous waste with designation: D001 because of its ignitability if the product is disposed of in its original form.

## 12. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Flammable Liquid. n.o.s.

Hazard Class: 3

Hazard ID Number: UN 1993 PG II

## DISCLAIMER

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as

## PRODUCT APPLICATION AND SAFETY DATA SHEET

Product : **MOLD CLEANER MC-501**

Date: December 22, 2008 by Diego Monteiro

Page 3 of 4

recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

**PRODUCT APPLICATION AND SAFETY DATA SHEET**

Product : **MOLD CLEANER MC-501**

Date:December 22, 2008 by Diego Monteiro

Page4of4