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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Telephone numbers:** (517) 546-4520  
**Manufacturer/Supplier:** CHEM-TREND LP  
P.O. BOX 860  
HOWELL, MI 48844-0860  
**Product Name:** Mold Cleaner 201B

### 2. HAZARDS IDENTIFICATION

**Physical State:** Liquid  
**Appearance:** Liquid  
**Color:** Clear Colourless levemente Yellow  
**Odor:** Mild Amine  
**Principle Routes of Exposure:** Skin, eyes, respiratory tract, gastrointestinal tract

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%

### 4. FIRST AID MEASURES

**Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**Inhalation:** Move to fresh air. If symptoms persist, call a physician.  
**Ingestion:** Drink 2 glasses of water. Call a physician or poison control center immediately.  
**Aggravated Medical Conditions:** Dermatitis.  
**Notes to physician:** No information available.

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### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	199 °F , 93°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
<b>Flame extension test, inches (aerosol products only):</b>	Not applicable, no information available.
<b>Suitable extinguishing media:</b>	Carbon dioxide (CO2). Dry chemical. Foam. Do not use a direct stream of water..
<b>Unusual hazards:</b>	Combustible material.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Standard procedure for chemical fires.
<b>Explosive properties:</b>	No information available.

### 6. ACCIDENTAL RELEASE MEASURES

#### Methods for cleaning up:

<b>Small spills:</b>	Take precautionary measures against static discharges. Soak up with inert absorbent material and dispose of as hazardous waste.
<b>Large spills:</b>	Take precautionary measures against static discharges. Pick up and transfer to properly labelled containers.

### 7. HANDLING AND STORAGE

#### Handling:

**Technical measures/precautions** Ensure adequate ventilation. Take precautionary measures against static discharges.

**Safe handling advice:** Handle in accordance with good industrial hygiene and safety practice.  
Normal measures for preventive fire protection  
Take precautionary measures against static discharges.  
Keep away from open flames, hot surfaces and sources of ignition  
Bond and ground containers during transfer of material.  
Do not puncture empty containers.  
Do not re-use empty containers for other materials.

#### Storage:

**Technical measures/storage conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep product and empty container away from open flames, hot surfaces and sources of ignition. Store at temperatures not exceeding 110°F.

**Incompatible products:** Strong oxidizing agents.

**Other precautions:** None

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS-No.	ACGIH TWA:	OSHA - TWA:	OSHA - Skin Notations	OSHA Z3 Mineral Dusts
1-Methyl-2-pyrrolidone	872-50-4	-	-	-	-

**Engineering measures:** Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### Personal Protective Equipment

- Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:** Impervious gloves
- Eye protection:** Tightly fitting safety goggles or safety glasses with side-shields
- Skin and body protection:** Lightweight protective clothing. Usual safety precautions while handling the product will provide adequate protection against this potential effect.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Initial boiling point:</b>	~395 °F, ~202°C
<b>Specific gravity:</b>	1.03
<b>Bulk density (lb/gal):</b>	8.59
<b>Vapor pressure (mm Hg, 20 °C (68 °F)):</b>	0.29 (n-methylpyrrolidone)
<b>Vapor density (Air = 1.0)</b>	>1
<b>Evaporation rate:</b>	<1 (n-butyl acetate = 1)
<b>Volatiles content (%):</b>	Non-volatile at STP
<b>Water solubility:</b>	Insoluble
<b>pH of concentrate:</b>	Not applicable.
<b>pH of dilution, other:</b>	7.2 @ 10%
<b>Melting point range:</b>	Not applicable
<b>Flash point:</b>	199 °F , 93°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
<b>Flammability limits in air:</b>	Percent by volume

Components	CAS-No.	Lower (%):	Upper (%):
1-Methyl-2-pyrrolidone	872-50-4	1.3	9.5

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Conditions to avoid:</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid:</b>	Strong oxidizing agents Strong acids Reducing agents
<b>Hazardous decomposition products:</b>	Carbon oxides. Nitrogen oxides (NOx).
<b>Polymerization:</b>	Hazardous polymerization does not occur.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Component Information:

Components	CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation (Vapor)
1-Methyl-2-pyrrolidone	872-50-4	3598 mg/kg (rat)	2500 mg/kg 2000 mg/kg (rat)	-

#### Acute effects

**Product contains proprietary ingredients. Health hazards are listed below.**

##### Skin contact:

Causes skin irritation. Repeated or prolonged contact can cause redness, swelling, and cracking.

##### Eye contact:

Moderately irritating to the eyes.

##### Inhalation:

May cause irritation of respiratory tract

##### Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, and diarrhea.

##### Sensitization:

No information available.

##### Other effects:

In animal studies in rats and mice, N-methylpyrrolidone was embryotoxic by the oral and intraperitoneal routes at very high dose levels which were close to the LD50. In a dermal exposure study with rats, N-methylpyrrolidone was only embryotoxic at high dose levels; this effect was attributed to maternal toxicity. Several inhalation studies in rats did not reveal any indication of maternal toxicity or embryotoxicity.

#### Chronic effects

##### Carcinogenic effects:

Components	CAS-No.	NTP:	IARC:	OSHA:
1-Methyl-2-pyrrolidone	872-50-4	No	No	No

##### Mutagenic effects:

No information available.

##### Reproductive toxicity:

No information available.

##### Target Organ Effects:

No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Method(s) of disposal:** Dispose of in accordance with local, state, and federal regulations. This product does not fall under current EPA RCRA definitions of hazardous waste.

**US EPA Waste number:** None.

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### 14. TRANSPORT INFORMATION

**IMDG - Marine Pollutants** This product does not contain marine pollutants as classified by the International Maritime Organization.

**Emergency Response Guidebook (ERG) No:** 128

Mode of Transportation:	UN/NA ID No:	Proper shipping name:	Technical name	Hazard Class:		Packing group:
DOT - Non-Bulk	-	Not regulated	-	-		-
DOT - Bulk	NA1993	Combustible liquid, n.o.s.	(Contains 1-Methyl-2-pyrrolidone )	-		III
Canadian TDG	-	Not regulated	-	-		-
ICAO/IATA	-	Not regulated	-	-		-
IMO/IMDG	-	Not regulated	-	-		-

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### 15. REGULATORY INFORMATION

#### Federal Regulations

OSHA Hazardous Chemical: Yes

#### SARA Title III

##### CERCLA/SARA (304) Hazardous Substances and RQs

Components	CAS-No.	Weight %	RQ
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%	-

##### SARA (302) Extremely Hazardous Substances and RQs

Components	CAS-No.	Weight %	TPQ
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%	-

##### SARA (311/312) Classification:

Acute health hazard: Yes

Chronic health hazard: Yes

Fire: Yes

Sudden Release of Pressure No

Reactive: No

##### SARA (313) Toxic Chemicals

Components	CAS-No.	Weight %	SARA (313) List
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%	X

#### International Inventories

<b>Australia:</b>	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
<b>Canada:</b>	This product complies with DSL
<b>China:</b>	This product complies with CLECS.
<b>Europe:</b>	This product complies with EINECS
<b>Japan:</b>	This product complies with ENCS/MITI.
<b>Korea:</b>	Listed on ECL.
<b>New Zealand:</b>	This product complies with NZIoC
<b>Philippines:</b>	This product complies with PICCS.
<b>United States:</b>	This product complies with TSCA.

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### 16. OTHER INFORMATION

#### Hazardous Material Information System (USA):

Health 2 Flammability: 2 Physical hazard: 0 Personal Protection code: B

#### National Fire Protection Association (USA):

Health: 2 Flammability: 2 Instability: 0 Special Hazards: None/Not available

All revisions are marked with one or more asterisks (\*)

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