

# MATERIAL SAFETY DATA SHEET

Wel-Cote™  
03/20/02

FILE NO.: MLDCOAT  
MSDS DATE:

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Wel-Cote™ Mold Coating  
SYNONYMS: Mold Coating, Mold Coat, Mold Coating #1  
PRODUCT CODES: #1(1Gallon)

MANUFACTURER: Welco Manufacturing Company  
ADDRESS: 1225 Ozark Street, North Kansas City, Missouri 64116

EMERGENCY PHONE: (800)821-7352  
OTHER CALLS: (816)471-1788  
FAX PHONE: (816) 471-3439

CHEMICAL FAMILY: Compound  
CHEMICAL FORMULA: Compound

PRODUCT USE: Used for treating the surface of foundry molds to facilitate removal of molded products.  
PREPARED BY: Robert L. Hamilton

### SECTION 1 NOTES:

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS Number	% WT	% VOL	TLV (mg/m³)	PEL(mg/m³)
Sodium Silicate Solution	1344-09-8>30	>30	NE	NE	
Diatomaceous Earth	68855-54-9	>2	>2	10	20
Chromium Green Oxide	1308-38-9>10	>10	.5	.5	
Titanium Dioxide	13463-67-7	>2	>2	10	15

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not hazardous when used according to directions.

ROUTES OF ENTRY: Eyes, Mouth, and Nose

### POTENTIAL HEALTH EFFECTS

EYES: Contact can cause mechanical irritation. Rinse with water for at least 15 minutes.

SKIN: Prolonged contact may cause irritation. Wash with soap and water.

INGESTION: No known effects.

INHALATION: Inhalation of dust may irritate nose, throat, and lungs. Remove to fresh air. Seek medical attention if condition persists.

ACUTE HEALTH HAZARDS: See above.

CHRONIC HEALTH HAZARDS: Chronic overexposure to dust may result in lung disease and/or cancer.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing upper respiratory and lung diseases, which may include, but are not limited to, bronchitis, emphysema, and asthma.

### CARCINOGENICITY

MATERIAL  
Respirable Crystalline Silica

NTP:  
Anticipated

IARC:  
Group 1

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**SECTION 3 NOTES:** When used as directed, quantities of Respirable Silica and would be expected to be less than the prescribed OSHA/NIOSH limits. Wear eye and skin protection. Use NIOSH/MSHA approved respirator when spraying or sanding.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Rinse with water for at least 15 minutes. If redness or irritation persists, consult physician.

**SKIN:** Rinse with soap and water. If irritation persists, consult physician.

**INGESTION:** If nausea or irritation occurs, consult physician.

**INHALATION:** Remove to fresh air. If respiratory symptoms persist, consult physician.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Rinse affected areas with water.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER:** None  
**LOWER:** None

**FLASH POINT:** Non-Combustible

**AUTOIGNITION TEMPERATURE:** None

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 1                      **FLAMMABILITY:** 0                      **REACTIVITY:** 0  
**OTHER:** N/A

**HMIS HAZARD CLASSIFICATION**

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

**EXTINGUISHING MEDIA:** Use appropriate extinguishing media for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide will be produced at temperatures exceeding 800°C. Thermal decomposition will produce Water, Carbon Dioxide, Carbon Monoxide,

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Use normal clean up procedures. Area may become slick, take caution to avoid falling. Wear appropriate protective equipment. Shovel material into a waste container for disposal.

**SECTION 6 NOTES:** Dispose of material in accordance with federal, state, and local regulations.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Use appropriate personal protection equipment when handling and finishing.

**OTHER PRECAUTIONS:** Do not store in extreme heat or cold.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Minimize dust exposure in accordance with good hygiene practices.

**VENTILATION :** Ventilate to keep exposures below TLV.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved respirator when spraying or sanding.

**EYE PROTECTION:** Wear safety glasses or goggles to prevent particulate irritation to the eye.

**SKIN PROTECTION:** Wear nitrile gloves when handling this product.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None

**WORK HYGIENIC PRACTICES:** Follow acceptable good hygiene practices.

**EXPOSURE GUIDELINES:** Avoid sanding which may cause exposure to dust.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Green liquid.

**ODOR:** Low odor.

**PHYSICAL STATE:** Water thin liquid

**pH AS SUPPLIED:** 9

**BOILING POINT:**

F: 212°

C: 100°

**MELTING POINT:**N/A

F:

C:

**FREEZING POINT:**

F: 32°

C: 0°

**VAPOR PRESSURE (mmHg):** 17

@

F: 20°

C: -8°

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.2

**SOLUBILITY IN WATER:** Soluble

**PERCENT SOLIDS BY WEIGHT:** >50%

**PERCENT VOLATILE:**

BY WT/ BY VOL @ 212°F/ 100°C

<50

<50

**VOLATILE ORGANIC COMPOUNDS (VOC):** <2g/L

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## SECTION 10: STABILITY AND REACTIVITY

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STABLE

UNSTABLE

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STABILITY:

Yes

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CONDITIONS TO AVOID (STABILITY): None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Dioxide, Carbon Monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): None.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: Contains trace amounts of Chromium VI which is a suspected carcinogen.

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: No effect known.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations, as these will differ from one area to the next.

RCRA HAZARD CLASS: None

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Wel-Cote™ Mold Coating

HAZARD CLASS: Non Hazardous

ID NUMBER: NMFC 50244

PACKING GROUP: None

LABEL STATEMENT: None

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Chromium(III) Oxide is reportable.

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: Chromium(III) Oxide

STATE REGULATIONS: None

INTERNATIONAL REGULATIONS: None