



# MATERIAL SAFETY DATA SHEET

## FORMULA FIVE<sup>®</sup> MOLD RELEASE WAX

MSDS Number: F5MRW-001

Effective Date: 20 June 2003

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### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME        **FORMULA FIVE<sup>®</sup> Mold Release Wax**  
GENERIC NAME        Wax polishing compound

MANUFACTURER        REXCO  
                              P.O. Box 80996  
                              Conyers, Georgia 30094  
                              USA

TRANSPORTATION EMERGENCY:  
CHEMTREC (800) 424-9300    U.S.A. (24 hours/day)  
CHEMTREC (703) 527-3887    International (Collect calls accepted)

CUSTOMER SERVICE AND PRODUCT EMERGENCY:  
REXCO (800) 888-1060        U.S.A and Canada  
REXCO (770) 483-7610        International

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### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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COMPONENT	CAS NUMBER	CONCENTRATION (%)
Light Petroleum Distillate	64742-47-8	64 – 76
Carnauba Wax	8015-86-9	12 – 18
Paraffin Wax	8002-74-2	8 – 12
Dimethylpolysiloxane	63148-62-9	4 – 6

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### SECTION 3: HAZARDS IDENTIFICATION

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NFPA RATING: Health 1, Fire 2, Reactivity 0  
HMIS RATING: Health 1, Fire 2, Reactivity 0  
0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME

#### POTENTIAL HEALTH EFFECTS

EYES                    Can cause eye irritation. Prolonged or repeated exposure may result in conjunctiva.  
SKIN                    May cause skin irritation. Prolonged or repeated exposure may result in defatting, skin dermatitis.  
INHALATION        Repeated or prolonged exposure may cause central nervous system depression, including headache, dizziness, loss of coordination, unconsciousness.  
INGESTION            Can cause nausea and vomiting with danger of Chemical Pneumonia.

CHRONIC HEALTH EFFECTS: Possible central nervous system depression and skin dermatitis.



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**SYMPTOMS OF EXPOSURE:** Symptoms of exposure through inhalation, ingestion, or direct contact with skin may include nausea, vomiting, diarrhea, irritation of nose, throat, airways, or skin, central nervous system depression – possibly including headache, loss of coordination, drowsiness, fatigue, and unconsciousness – and death in extreme cases. Pre-existing eye, skin, or respiratory disorders may be aggravated by exposure to this product.

**PRIMARY ROUTES OF ENTRY:** Skin contact, skin absorption, eye contact, and inhalation

**CANCER INFORMATION:** Neither this product nor any of its components is listed as a carcinogen or partial carcinogen by the following agencies: the National Toxicology Program, the International Agency for Research on Cancer, and the Occupational Safety and Health Administration.

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### SECTION 4: FIRST AID MEASURES

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EYES	Flush immediately with cold water for 15 minutes and seek medical attention.
SKIN	Remove contaminated clothing and wash affected area with soap and hot water. If irritation from contact persists, seek medical attention. Launder contaminated clothing – including shoes – prior to reuse.
INHALATION	If light-headed or having difficulty breathing, expose individual to fresh air and/or oxygen. If breathing stops, begin artificial respiration and seek immediate medical attention.
INGESTION	Seek immediate medical attention. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration into lungs. If possible, do not leave victim unattended.

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### SECTION 5: FIRE FIGHTING MEASURES

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FLASH POINT / METHOD: >142 °F (>61 °C) / Tagliabue Closed Cup method (TCC)

AUTO IGNITION TEMPERATURE: 440 °F (226 °C)

FLAMMABLE LIMITS IN AIR (% BY VOLUME): LEL Lower 0.9% / UEL Upper 6.0%

FIRE AND EXPLOSION HAZARDS: Low flash point. Keep work areas free of hot metal surfaces and other sources of ignition.

EXTINGUISHING MEDIA: Use dry chemicals, CO<sub>2</sub>, water fog, water spray, or foam.

FIRE FIGHTING INSTRUCTIONS: Wear a NIOSH-approved self contained breathing apparatus in positive pressure mode and full bunker gear. Water may be unsuitable as an extinguishing media but helpful in keeping adjacent containers cool in order to prevent container rupture. Avoid spreading burning liquid with water used for cooling purposes.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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IN CASE OF SPILL: Keep sources of ignition and hot metal surfaces isolated from spill. Persons involved in clean-up should wear personal protection equipment. Stop spill at source and prevent from spreading. If spilled as a solid, scrape and then sweep up spilled material. If spilled as a free-flowing liquid, confine spill



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and allow liquid to solidify prior to clean-up. If run-off occurs, notify proper authorities as required. Place in chemical waste container and dispose of in accordance with local, state, and federal regulations.

**CAUTION! FLOORS COVERED WITH RESIDUAL MATERIAL BECOME EXTREMELY SLIPPERY.**

### SECTION 7: HANDLING AND STORAGE

Store in a cool, dry location at 90 °F (32 °C) or below and away from open flames, heat, and sparks. Keep work areas free of hot metal surfaces and other sources of ignition. Keep container tightly closed when not in use to prevent drying out of material.

Repack only into high-density polyethylene (HDPE). Containers used for repackaging should be thoroughly tested for long-term product compatibility before use. All new containers must exhibit product labels required for proper identification, safety, handling, and storage. Empty containers may contain product residue such as vapors – continue to observe proper handling and storage precautions.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**EYE PROTECTION:** Safety glasses, goggles, or face shield are advised. Eye washes are recommended for work areas.

**SKIN PROTECTION:** Wear impervious gloves, clothing, and shoes to prevent skin contact. Safety showers are recommended for work areas. Remove contaminated clothing and wash in hot water and soap prior to reuse.

**RESPIRATORY PROTECTION:** Exposure levels should be kept below the PEL or TLV for this product. If exposure exceeds recommended levels, use of NIOSH-approved cartridge respirator or gas mask is advised. Engineering controls should be implemented if necessary to reduce exposure.

**ENGINEERING CONTROLS:** Provide sufficient general and/or local exhaust (explosion-proof ventilation) to keep exposure below PEL or TLV.

#### EXPOSURE GUIDELINES

COMPONENT	OSHA PEL	ACGIH TLV
Light Petroleum Distillate	100 ppm PEL/TWA	100 ppm TLV/TWA
Carnauba Wax	None Established	None Established
Paraffin Wax	None Established	None Established
Dimethylpolysiloxane	None Established	None Established

Threshold limit for wax fumes is 2 mg/m<sup>3</sup> in air for 8-hour workday. Avoid generation and inhalation of wax fumes.

PEL = PERMISSIBLE EXPOSURE LIMITS

TLV = THRESHOLD LIMIT VALUE

TWA = TIME WEIGHTED AVERAGE (8 HOURS)

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Tan Paste Wax

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 0.788

ODOR: Solvent

VAPOR PRESSURE (mm Hg): 3.0



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BOILING POINT: 310 - 410 °F (154 - 210 °C)  
MELTING POINT: 120 °F (48 °C)  
V.O.C. (BY % CALCUATION): 533 g/L  
V.O.C. = VOLATILE ORGANIC CONTENT

VAPOR DENSITY (AIR=1): 1.4  
SOLUBILITY IN WATER: No  
REACTIVITY IN WATER: No

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### SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable

CONDITIONS TO AVOID: Open flames, hot surfaces, or any ignition source.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids or bases, alkali metals, halogens, and strong alkalis.

HAZARDOUS DECOMPOSITION: Normal combustion forms carbon dioxide and water vapor. Incomplete combustion will produce carbon monoxide and other toxic substances.

HAZARDOUS POLYMERIZATION: Will not occur

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### SECTION 11: TOXICOLOGICAL INFORMATION

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No data available specific to this product. Following is data as pertains to one or more major ingredients:

EYES: Primary Eye Irritation Index (Rabbits): Maximum average score = 3.3 (Maximum score is 110)

SKIN: Primary Skin Irritation Index (Rabbits): 2.2 (Maximum score is 8.0)  
Acute Dermal LD50 (Rabbit): 2.0 – 4.0 g/kg for similar products

INHALATION: LC50 (Rat): (male and female) > 6.8 mg/L

INGESTION: Acute Oral LD50 (Rat): > 5 g/kg

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### SECTION 12: ECOLOGICAL INFORMATION

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Product would not be expected to cause damage to the environment and is inherently biodegradable. Product would be expected to biodegrade slowly, depending upon conditions to which it is exposed.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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Waste material may be incinerated at an approved facility where permitted under appropriate Federal, State, and Local regulations.



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### SECTION 14: TRANSPORT INFORMATION

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DOT CLASSIFICATION: This product is not regulated for transportation.  
ICAO / IATA CLASSIFICATION: This product is not regulated for transportation.  
IMDG CLASSIFICATION: This product is not regulated for transportation.

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### SECTION 15: REGULATORY INFORMATION

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#### COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA)

Contains no chemicals on the CERCLA hazardous chemicals list.

#### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III

SARA 302: Contains no chemicals subject to SARA 302 reporting

SARA 311/312 HAZARD CATEGORIES: Not hazardous

SARA 313: Contains no chemicals subject to SARA 313 reporting

**OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) CLASSIFICATION:** Not applicable

**CALIFORNIA PROPOSITION 65:** Contains no detectable quantities of Proposition 65 chemicals.

**WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) CLASSIFICATION:** Not regulated

**CHEMICAL INVENTORY:** This product is not listed on regulatory inventories or listings. Components are either listed on the following chemical inventories or qualify for an exemption:

UNITED STATES	Toxic Substances Control Act (TSCA)
CANADA	Canadian Domestic Substance List (DSL)
EUROPE	European Inventory of Existing Commercial Chemical Substances (EINECS)
AUSTRALIA	Australian Inventory of Chemical Substances (AICS)
JAPAN	Existing and New Chemical Substances (ENCS)
KOREA	Existing Chemicals List (ECL)
PHILIPPINES	Philippines Inventory of Chemicals and Chemical Substances (PICCS)

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### SECTION 16: OTHER INFORMATION

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All information provided in this Material Safety Data Sheet is believed to be accurate and reliable. REXCO makes no warranty of any kind, express or implied, including warranties of merchantability or fitness for a particular purpose, concerning the safe use of this material in your process or in combination with other substances. Users should make their own tests and assessments as to the suitability of this product or the information contained herein for their particular purposes and uses.

Prepared by: REXCO Product Stewardship Department