



MATERIAL SAFETY DATA SHEET

FORMULA FIVE[®] Wax Stripper-S (Super)

MSDS Number: F5WSS-002

Effective Date: 20 June 2011

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SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **FORMULA FIVE[®] Wax Stripper-S (Super)**
GENERIC NAME **Mold Cleaner**

MANUFACTURER REXCO
 P.O. Box 80996
 Conyers, Georgia 30013
 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

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	CONCENTRATION (%)
N-Methyl Pyrrolidinone*	872-50-4	< 50%
Butyl Acetate	123-86-4	< 20%
Methyl Ethyl Ketone*	78-93-3	< 50%

*This chemical is subject to the reporting requirements of section 313 of SARA Title III.

SECTION 3: HAZARDS IDENTIFICATION

NFPA RATING: Health 2, Fire 3, Reactivity 0

HMIS RATING: Health 2, Fire 3, Reactivity 0

0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME

POTENTIAL HEALTH EFFECTS

EYES Harmful to eyes, ranging from temporary irritation, transient corneal injury and pain to possible permanent injury or blindness.

SKIN Harmful to skin. Prolonged or repeated exposure may result in irritation, de-fatting, skin dermatitis, reddening, blisters or temporary loss of feeling depending on the level of exposure.

INHALATION Harmful. Danger of serious damage to health by prolonged inhalation. Vapors may cause irritation, nausea, vomiting, gastrointestinal bleeding, abdominal pain, and central nervous



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INGESTION system depression with symptoms ranging from drunkenness to unconsciousness, narcosis, coma, cyanosis, respiratory failure, and death, depending on the level of exposure. Harmful. May cause nausea, vomiting, gastrointestinal bleeding, abdominal pain, and central nervous system depression with symptoms ranging from drunkenness to unconsciousness, narcosis, coma, respiratory failure, mild to severe pulmonary injury, and death, depending on the quantity ingested.

CHRONIC HEALTH EFFECTS: Repeated exposure may cause skin dryness and cracking.

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

CARCINOGENICITY: THE COMPONENTS OF THIS PRODUCT HAVE NOT SHOWN ANY EVIDENCE OF BEING CARCINOGENIC.

SECTION 4: FIRST AID MEASURES

EYES Flush immediately with cold water for 15 minutes and seek medical attention.

SKIN Remove contaminated clothing and wash affected area with mild soap and water, apply skin cream. 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 is difficult seek medical attention. If breathing stops, begin artificial respiration and seek immediate medical attention.

INGESTION Seek immediate medical attention. Only induce vomiting if directed to do so by medical personnel. If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration into lungs. If possible, do not leave victim unattended.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT / METHOD: <73 °F (23 °C) / Tagliabue Closed Cup method (TCC)

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

EXTINGUISHING MEDIA: Use dry chemicals, CO₂, water fog, 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



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keeping adjacent containers cool in order to prevent container rupture. Avoid spreading burning liquid with water used for cooling purposes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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. Small amounts of spilled material may be absorbed with any standard absorbent. 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.

SECTION 7: HANDLING AND STORAGE

Store in a cool and dry location and away from open flames, heat, and sparks. Do not store at temperatures above 110 °F (43 °C) to avoid vapor pressure in closed containers. Store only in areas approved for Flammable Liquid. Keep work areas free of hot metal surfaces and other sources of ignition. Keep container tightly closed when not in use.

Repacking not recommended. Containers used for repackaging should be thoroughly tested for long-term product compatibility before use. Ground all equipment before pumping the product. Protect from static electrical sparks or other ignition sources. All new containers must exhibit product labels required for proper identification, safety, handling, and storage. Store away from strong oxidizers. 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 with side shields, chemical goggles, or face shield are advised. Eye washes are recommended for work areas.

SKIN PROTECTION: Wear chemical impervious gloves, clothing, and/or chemical resistant apron 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. Local exhaust preferred. 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 TWA	ACGIH TLV
N-Methyl Pyrrolidinone	Not Established	Not Established
Butyl Acetate	Not Established	Not Established
Methyl Ethyl Ketone	200 ppm (8-Hour TWA)	200 ppm TLV/TWA



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PEL = PERMISSIBLE EXPOSURE LIMITS

TLV = THRESHOLD LIMIT VALUE

TWA = TIME WEIGHTED AVERAGE (8 HOURS)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear Liquid	SPECIFIC GRAVITY (H ₂ O=1):	0.934
ODOR:	Characteristic	EVAPORATION RATE (BUTYL ACETATE= 1) :	<1
BOILING POINT:	176 – 478 °F (80 – 248 °C)	VAPOR DENSITY (AIR= 1) :	> AIR
MELTING POINT:	Not Applicable	SOLUBILITY IN WATER:	Insoluble
V.O.C.	100%	REACTIVITY IN WATER:	No

V.O.C. = VOLATILE ORGANIC CONTENT

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Open flames, hot surfaces, or any ignition source, higher than ambient temperature storage.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids or bases, alkali metals, halogens, and strong alkalis. Do not store in aluminum containers.

HAZARDOUS DECOMPOSITION: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, toxic gases, smoke and vapor.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

EYES: May cause mild and temporary irritation of eyes and mucous membranes to permanent injury or blindness.

SKIN: May cause irritation to skin through drying and de-fatting. May cause reddening, dermatitis, skin cracking, eczema, blisters or temporary loss of feeling.

INHALATION: Vapor at low concentrations may cause mild irritation of respiratory system or lungs. At high concentrations and exposure may cause nausea, vomiting, and headaches with danger of serious damage to health by prolonged inhalation, including gastrointestinal bleeding, abdominal pain, and central nervous system depression with symptoms ranging from drunkenness to unconsciousness, narcosis, coma, cyanosis, respiratory failure, and death, depending on the level of exposure.

INGESTION: Ingestion may cause irritation of mucous membranes or abdominal pain to pulmonary injury and possibly death if aspirated even in small quantities.



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SECTION 12: ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

DOT CLASSIFICATION: Flammable Liquid, n.o.s. (Methyl Ethyl Ketone, N-Methyl Pyrrolidinone); 3; UN1993; Packing Group II

ICAO / IATA CLASSIFICATION: UN1993; Flammable Liquid, n.o.s. (Methyl Ethyl Ketone, N-Methyl Pyrrolidinone); 3; Packing Group II

IMDG CLASSIFICATION: UN1993; Flammable Liquid, n.o.s. (Methyl Ethyl Ketone, N-Methyl Pyrrolidinone); 3; Packing Group II

SECTION 15: REGULATORY INFORMATION

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

<u>COMPONENT</u>	<u>REPORTABLE QUANTITY (RQ)</u>
N-Methyl Pyrrolidinone	Not a regulated chemical
Butyl Acetate	5000 lbs (2270 kgs)
Methyl Ethyl Ketone	5000 lbs (2270 kgs)

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

<u>SARA 302</u> : Extremely Hazardous Substance:	NO
<u>SARA 311</u> : Hazardous Chemical:	YES
HAZARD CATEGORIES:	
FIRE	YES
IMMEDIATE (ACUTE) HEALTH HAZARD	YES
DELAYED (CHRONIC) HEALTH HAZARD	YES
REACTIVITY	NO
SUDDEN RELEASE OF PRESSURE	NO
IMMEDIATE RELEASE OF PRESSURE	YES
DELAYED RELEASE OF PRESSURE	YES
<u>SARA 313</u> :	
N-Methyl Pyrrolidinone	YES
Butyl Acetate	NO
Methyl Ethyl Ketone	YES



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WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) CLASSIFICATION:

Hazardous: Flammable Liquid

CHEMICAL INVENTORY: 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)

SECTION 16: OTHER INFORMATION

All information provided in this Material Safety Data Sheet is believed to be accurate and reliable of typical values and not as a product specification. 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 and compliance with all applicable laws and regulations.

Prepared by: REXCO Product Stewardship Department