



MATERIAL SAFETY DATA SHEET

FORMULA FIVE[®] Mold Cleaner

MSDS Number: F5C-002

Effective Date: 20 June 2011

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SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **FORMULA FIVE[®] Mold Cleaner**
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 (%)
Toluene*	108-88-3	28 - 32%
Xylene*	1330-20-7	28 - 32%
Ethyl Methyl Ketone*	78-93-3	37 - 43%

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

POTENTIAL HEALTH EFFECTS

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

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

INHALATION Harmful. Danger of serious damage to health by prolonged inhalation. Vapors may cause nausea, vomiting, 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 quantity ingested.



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INGESTION Harmful. May cause lung damage if swallowed. 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: May result in harm to unborn child.

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.

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 soap and 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. 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)

AUTO IGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS IN AIR (% BY VOLUME): LEL Lower 1.2% / UEL Upper 7%

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. Flush spilled material into suitable retaining areas or containers. 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 dry location at 60 - 80 °F (15 - 27 °C) 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. Repack only into high-density polyethylene (HDPE) or steel containers. Do not repack in aluminum containers. 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 impervious gloves (neoprene, rubber, NBR nitrile), 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. 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
Toluene	200 ppm PEL/TWA	50 ppm TLV/TWA
Xylene	100 ppm PEL/TWA	100 ppm TLV/TWA



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Ethyl Methyl Ketone

200 ppm PEL/TWA

200 ppm TLV/TWA

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 (H₂O=1): 0.84

ODOR: Mild Solvent

EVAPORATION RATE (BUTYL ACETATE= 1) : <1

BOILING POINT: 176 – 286 °F (80 – 141 °C)

VAPOR DENSITY (AIR= 1) : > AIR

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Insoluble

V.O.C. 0.826 g/cm³

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.

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

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, headaches, unconsciousness, cyanosis or death.

INGESTION: May cause irritation of mucous membranes or abdominal pain. Severe exposure may cause pulmonary injury possibly death.

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to enter ground soil, sewage or drains.



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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, Toluene); 3; UN1993; Packing Group II

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

IMDG CLASSIFICATION: UN1993; Flammable Liquid, n.o.s. (Methyl Ethyl Ketone, Toluene); 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>
Toluene	1000 lbs
Xylene	1000 lbs
Ethyl Methyl Ketone	5000 lbs

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
REACTIVITY	NO
SUDDEN RELEASE OF PRESSURE	NO
IMMEDIATE RELEASE OF PRESSURE	YES
DELAYED RELEASE OF PRESSURE	YES

OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) CLASSIFICATION: 29 CFR 1910.1200
Hazardous Chemical: YES

CALIFORNIA PROPOSITION 65: WARNING -This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) CLASSIFICATION:
Hazardous: Flammable Liquid



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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)
EUROPE	European Inventory of Existing Commercial Chemical Substances (EINECS)
AUSTRALIA	Australian Inventory of Chemical Substances (AICS)
JAPAN	Existing and New Chemical Substances (MITI)
S. KOREA	Existing Chemicals List (KECL)

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