

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
<b>NFPA Rating:</b> Health-1; Flammability-1; Reactivity-0; Special- - Manufacturer's Name: RITE-KEM, Inc. Address: 703 Westmoreland Dr. Address: Tupelo, MS 38801  CAGE 0VNV0 GSA GS-07F-0283J			<b>HMIS Rating:</b> Health-1; Flammability-1; Reactivity-0; Personal Protection-B <b>DOT Hazard Classification:</b> Combustible Liquid  <b>Identity</b> (trade name as used on label): <p style="text-align: center;"><b>BIO-SOL E</b></p>			
Prepared: 01/2005		Prepared By: ml		MSDS Number: BIO-SOL E Revision - 2		
Information Calls: (662) 840-6060			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
<b>EMERGENCY RESPONSE NUMBER: 1-800-424-9300 CHEMTREC</b>						
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
MONOCYCLIC TERPENE		5989-27-5	No	N/E	N/E	d
Percentages and non-hazardous ingredients are trade secrets						
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> 350°F+		<b>Specific Gravity</b> (H <sub>2</sub> O=1): 0.799				
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A		<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): 1 @100°F				
<b>Vapor Density</b> (Air = 1): 6		<b>Evaporation Rate</b> ( = 1): N/D				
<b>Solubility in Water:</b> Negligible		<b>Water Reactive:</b> No				
<b>Appearance and Odor:</b> Clear, orange colored liquid with pleasant citrus odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A		<b>Auto Ignition Temperature</b> N/D		<b>Flammability Limits in Air by % in Volume:</b> % LEL: NA % UEL: NA		
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): 115°F TCC		<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Do not enter confined fire space without proper protective equipment including NIOSH approved self-contained breathing apparatus. Cool fire exposed containers, surrounding equipment & structures with water.				
<b>EXTINGUISHER MEDIA:</b> Water spray or fog, foam, dry chemical or CO <sub>2</sub> . Do not use direct water stream.						
<b>Unusual Fire &amp; Explosion Hazards:</b> None known.						
SECTION 4 - REACTIVITY HAZARD DATA						
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE		<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR				
<b>Incompatibility</b> (Mat. to avoid): Oxidizing materials.		<b>Conditions to Avoid:</b> Heat, sparks, open flame.				
<b>Hazardous Decomposition Products:</b> Oxides of carbon & unidentified organic compounds may be formed during combustion.						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> [ ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS						
<b>ACUTE EFFECTS:</b> Toxicity: CNS depression producing headache, dizziness, nausea and loss of consciousness.						
<b>Inhalation:</b> High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes.						
<b>Eye Contact:</b> Slight irritation from short term contact. Prolonged & repeated contact more irritating.			<b>Skin Contact:</b> Prolonged & repeated liquid contact may result in irritation and dermatitis.			
<b>Ingestion:</b> May result in vomiting. Aspiration of vomitus into lungs must be avoided as lung contact can result in chemical pneumonitis and pulmonary edema.						
<b>CHRONIC EFFECTS:</b> None known.						
<b>Medical Conditions Generally Aggravated by Exposure:</b> Pre-existing irritation of skin or mucous membranes.						
EMERGENCY FIRST AID PROCEDURES						
<b>Eye Contact:</b> Flush with water for 15 minutes. If irritation persists, get medical attention.						
<b>Skin Contact:</b> Wash with soap and water. If irritation persists, get medical attention.						
<b>Inhalation:</b> Remove to fresh air. Provide oxygen if breathing is difficult. Get medical attention.						
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
<b>Respiratory Protection (specify type):</b> As required to prevent overexposure. NIOSH approved air purifying respirator for organic vapors or atmosphere-supplying respirator.						
<b>Protective Gloves:</b> As required to minimize skin contact.			<b>Eye Protection:</b> Safety glasses or goggles.			
<b>Ventilation Requirements:</b> Explosion proof ventilation as required to control vapor concentrations.						
<b>Other Protective Clothing &amp; Equipment:</b> Clothing as required to minimize skin contact. Eyewash station and safety shower.						
<b>Hygienic Work Practices:</b> Do not eat, drink or smoke in work area. Wash hands after handling.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Contain spill. Keep out of surface waters & any sewers or water courses entering or leading to surface waters. Soak up with inert absorbent & place in properly labeled leak-proof containers for disposal.						
<b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.						
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Store in original shipping containers away from heat, open flame & oxidizing materials. Keep closed when not in use. Shelf life 1 year.						
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.						

**SECTION 8 – TRANSPORTATION INFORMATION**

US Department of Transportation  
Shipping Name: **CLEANING COMPOUND**  
Hazard Class: **NON-HAZARDOUS**  
Label: **NONE**

IMDG:  
Proper Shipping Name: **TERPENE HYDROCARBONS, N.O.S.**  
Hazard Classification: **3**  
International Marine UN Number: **UN2319**  
Packing Group: **III**  
Subsidiary Hazard:  
Subsidiary Packing Group:  
MFAG Table No. :  
EMS No. :  
Flash point (test method) **115 TCC**  
IMDG Page Number:  
Label: **FLAMMABLE**  
**TERPENE HYDROCARBONS, N.O.S., 3, UN2319, PG III**

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only