



SAFETY DATA SHEET

SilEnergy

SDS DATE: *revised 10/19/2015*

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: SilEnergy

PRODUCT USE: Agriculture, forestry, rights-of-way, roadside
Adjuvants, Surface active agents

SUPPLIER DETAILS: Name: Brewer International, Incorporated
Address: PO Box 690037
Vero Beach, FL 32969
Phone: (800) 228-1833
Fax: (772) 778-2490

EMERGENCY PHONE: Chem Tel (800) 255-3924 available 24 hours

SECTION 2: HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION: Eye Irritation, category 2

LABEL ELEMENT:



EMERGENCY OVERVIEW

ROUTES OF ENTRY: Eye Contact, Skin Contact, Inhalation, Ingestion

HEALTH EFFECTS:

Eyes: **WARNING** causes serious eye irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Blend of nonionic surfactant and Polyalkyleneoxide modified polydimethyl siloxane

CAS #	WT%
Not applicable	99

INGREDIENT: Components ineffective as adjuvants

CAS #	WT%
Not applicable	1

SECTION 4: FIRST-AID MEASURES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor for medical advice.



IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical attention.

IF SWALLOWED: Rinse mouth. Call a doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:

F: >250°

C: >121°

SUITABLE EXTINGUISHING MEDIA: Dry chemicals, alcohol-resistant foam, carbon dioxide, or water fog.

UNSUITABLE EXTINGUISHING MEDIA: Direct water stream may spread fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Incomplete combustion may produce silicone dioxide, carbon monoxide, or carbon dioxide. Burning may produce noxious and toxic fumes.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: Evacuate the area promptly. Do not scatter spilled material with high pressure water streams. Use water spray to cool unopened containers. Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Keep unnecessary personnel away. **DO NOT** touch damaged containers or spilled material unless wearing appropriate protective gear. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Ventilate closed spaces before entering them. Material can create slippery conditions.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers ditches and waterways.

METHODS FOR CONTAINMENT: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in the immediate area). Stop the flow of the material and dike spill area when possible without exposure to unnecessary risk.

METHODS FOR CLEANING UP: DO NOT release this product into the environment. Use equipment rated for use around combustible materials. For large spills, absorb spilled liquid with suitable non-combustible absorbent material such as dirt or sand. For small spills, wipe up with suitable absorbent material such as cloth. Clean exposed surfaces thoroughly to remove any residual contamination. Never return spills to original containers for re-use. Dispose any contaminated absorbents appropriately. For waste disposal, see section 13 of this SDS.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wash hands and exposed skin thoroughly after handling. **DO NOT** breathe vapors or spray. Use only out doors or in a well-ventilated area. Keep material away from heat, sparks, and flame. Use appropriate personal protective equipment. Wear eye protection. **DO NOT** get in eyes, on skin or on clothing. Avoid prolonged and repeated contact. **DO NOT** swallow. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. The container is hazardous when emptied and should be disposed of appropriately.



STORAGE: Store in a well-ventilated place with proper sprinkler/fire deterrent system. Keep container tightly closed. Keep container closed when not in use. Avoid freezing temperatures. **DO NOT** cut, drill, grind or weld on or near this container. Keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT(S)	EXPOSURE LIMITS
Blend of nonionic surfactant and silicone	OSHA PEL: Not Established ACGIH TWA: Not Established ACGIH STEL: Not Established

PEL= Permissible Exposure Limits
TWA= Time Weighted Average
STEL= Short term Exposure Limit

ACGIH= American Conference of Governmental Industrial Hygienists
OSHA= Occupational Safety and Health Administration

ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Maintain air concentrations below occupational exposure limits. Use local exhaust when misting occurs. Natural ventilation is adequate in absence of mists. Keep away from sparks and flames.

RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required. An approved respirator must be worn if airborne concentrations are above any recommended exposure limits. In misty atmospheres, use an approved respirator.

EYE PROTECTION: If material could be misted or splashed into eyes, wear safety glasses with side shields (or goggles). Eye wash fountain should be available.

SKIN PROTECTION: Impervious gloves are recommended. Boots, apron, bodysuit, or other suitable protective clothing should be worn as necessary.

WORK HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Wash hands and face before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Have eye wash and emergency shower facilities immediately available. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear

ODOR: Low chemical odor

ODOR THRESHOLD: No data available

PHYSICAL STATE: Liquid

pH: No data available

FREEZING POINT: No data available

BOILING POINT: >392°F (200.0°C)

FLASH POINT: >250°F (121.1°C)

EVAPORATION RATE (N-Butyl Acetate = 1): <1

FLAMMABILITY (SOLID, GAS): No data available

UPPER/LOWER FLAMMABILITY: No data available



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VAPOR PRESSURE (mmHg): No data available
@ 68°F (20.0°C)

VAPOR DENSITY (AIR = 1): >1

SPECIFIC GRAVITY (H₂O = 1): No data available
@ 68°F (20.0°C)

SOLUBILITY IN WATER: No data available

PARTITION COEFFICIENT (N-Octanol/Water): No data available

AUTO-IGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

VISCOSITY: No data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY/POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization does not occur.

CHEMICAL STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Keep away from heat, sparks, static discharge, flame, exposure to elevated temperatures, and freezing temperatures.

INCOMPATIBLE MATERIALS: Strong acids and bases, including acidic clays; alkali metals; halogens; peroxides; vinyl chloride; and iodine pentafluoride.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes, alcohols, ethers.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Oral, ATE_{mix} = LD₅₀ 3,100 mg/kg for rats
Dermal, ATE_{mix} = LD₅₀ 7,300 mg/kg for rabbits
Inhalation, ATE_{mix} = LC₅₀ 4.4 mg/l for rats

SKIN CORROSION/IRRITATION: Not expected

EYE DAMAGE/IRRITATION: Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITIZATION: The product is not expected to be sensitizing.

GERM CELL MUTAGENICITY: No data available

CARCINOGENICITY: No components present in excess of 0.1% by weight listed as carcinogens by OSHA, NTP, IARC or ACGIH.

REPRODUCTIVE TOXICITY: No data available

SPECIFIC TARGET ORGAN TOXICITY

SINGLE EXPOSURE: None expected

REPEATED EXPOSURE: None expected.

ASPIRATION HAZARD: Not expected



SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Fish: ATE_{mix} = LC₅₀ 3.8 mg/L, Rainbow trout/96 hr
Daphnia: ATE_{mix} = EC₅₀ 4.3 mg/L, Daphnia magna/48 hr

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate or dispose of in accordance with Local, State, and Federal Regulations. Commercially clean containers prior to disposal. Oil soaked rags should be disposed of properly to prevent spontaneous combustion. Do not allow this material to drain into sewers/water supplies. For the safety of persons conducting disposal, please refer to the information in section 8.

SECTION 14: TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

TDG

Not regulated

ENVIRONMENTAL HAZARDS: The product is not a marine pollutant as defined by 49 CFR part 171.8 or TDG regulations.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or exempt under 40 CFR 720.30.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT) reportable substances:

not regulated



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SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

HAZARD CATEGORIES

IMMEDIATE HAZARD: Yes
DELAYED HAZARD: No
FIRE HAZARD: No
PRESSURE HAZARD: No
REACTIVE HAZARD: No

313 REPORTABLE INGREDIENTS: No

302 EXTREMELY HAZARDOUS SUBSTANCE: No

CALIFORNIA PROPOSITION 65: *The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986.* This product may contain trace amounts of chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Ethylene Oxide; 1,4-Dioxane, ethylene glycol monomethyl ether.

SECTION 16: OTHER INFORMATION

NFPA RATINGS

HEALTH: 2
FIRE: 1
REACTIVITY: 0

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