

MATERIAL SAFETY DATA SHEET

BI-O-KLEEN INDUSTRIES, INC

P.O. BOX 820689
VANCOUVER, WA. 98682

Telephone: (360) 576-0064 (800) 477-0188
Fax: (360) 576-0065
For 24 Hr. Emergency Call: INFOTRAC (800) 535-5053
Website: www.bi-o-kleen.com

SECTION 1. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: CITRUS SOY SOLVENT
Chemical Name: Fatty Acid Methyl Ester
Chemical Family: Solvent Cleaning Compound
Date Issued: March 28, 2005
Date Revised:

HMIS RATING	
Health	1
Fire	0
Reactivity	0
PPE	A

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	%	SARA TITLE III	PEL	TLV
------------	------	---	----------------	-----	-----

This product contains Esters of Fatty Carboxylic Acids not listed by the ACGIH as hazardous.
Components listed as a suspected carcinogen: None

SECTION 3. HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Effects of Overexposure: TLV not established for product.

Primary Routes of Entry: Ingestion, Inhalation, Skin and Eye Contact.

ACUTE:

EYE CONTACT: May cause irritation.

SKIN: Not expected to be a hazard with normal use.

INHALATION: Not expected to be a hazard with normal use.

INGESTION: May cause nausea, vomiting, and/or diarrhea.

CHRONIC: Prolonged or repeated contact may result in defatting of skin. Persons with pre-existing skin disorders may be more susceptible to the effects of the contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None reported.

SECTION 4. FIRST AID MEASURES

Emergency and First Aid Procedures.

- IF IN EYES: Immediately flush with large quantities of clean water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists. Do not rub eyes.
- IF ON SKIN: Rinse exposed area soap and clean water for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
- IF SWALLOWED: **DO NOT INDUCE VOMITING.** Drink two glasses of water or milk. Never give anything orally to an unconscious or convulsing person. Get prompt medical attention.
- IF BREATHED: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Get prompt medical attention.

SECTION 5. FIRE FIGHTING MEASURES

- FLASH POINT (PMCC): 425 F
- FLAMMABLE LIMITS IN AIR: Not Determined.
- EXTINGUISHING MEDIA: Dry Chemical, carbon dioxide, foam, or water fog. Class BC or ABC fire extinguisher.
- SPECIAL FIRE FIGHTING PROCEDURES: Self-contained positive pressure breathing apparatus and protective clothing should be worn. Treat fire as an Oil Fire.
- UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and/or Carbon Dioxide.

SECTION 6. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Use required personal protective equipment when entering spill area. Avoid entering spill area; spilled material may be extremely slippery.

- SMALL SPILL: Avoid release to sanitary sewer or environment. Use appropriate absorbent material to absorb residual material and transfer absorbed material to containers for disposal.
- LARGE SPILL: Stop spill at source using dam, dike or divert techniques to prevent spill from spreading. Salvage any free product for reuse, if possible. Use absorbent to absorb any residual material. Transfer into container for disposal in Class D landfill or incinerate pending approval. Follow up with water flush.

SECTION 7. HANDLING AND STORAGE

Preferred storage is between 60 and 100 deg. F. Keep Container closed when not in use. If container is to be returned or recycled, make sure container is drip dry.

Citrus Soy Solvent

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION EQUIPMENT

Occupational Exposure Limits:

	ACGIH TLV	TLV(C)	STEL	OSHA STEL	PEL
None established for product. Use ACGIH recommended TLV for vegetable oils of 10 mg/m ³					

RESPIRATORY PROTECTION:	None normally required under normal use.
VENTILATION	Provide sufficient general and/or local exhaust during normal use.
PROTECTIVE GLOVES:	For Prolonged Contact use Nitrile or Neoprene rubber gloves.
EYE PROTECTION:	Chemical splash goggles recommended.

OTHER PROTECTIVE EQUIPMENT: None normally needed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	> 400 F
Vapor Pressure:	Same as for Water (1)
Vapor Density:	Not Available
Specific Gravity:	0.87
Percent Volatiles:	Less than 3%
Evaporation Rate:	NA
Appearance and odor:	Slight Yellow to Clear Liquid. Light musty odor.
pH:	NA
Solubility:	Not Soluble.

SECTION 10. STABILITY AND REACTIVITY

STABILITY:	Product is stable
HAZARDOUS POLYMERIZATION:	Will not occur.
INCOMPATIBILITY:	Strong Oxidizing Agents.
CONDITIONS TO AVOID:	Strong Oxidizing Agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Substance	Specie	LD50
Methyl Ester	Rat	50 ml/kg

CARCINOGENICITY: The NTP, IARC, or OSHA does not consider this product or its components to be carcinogenic.

SECTION 12. ECOLOGICAL INFORMATION

None Available For Product

SECTION 13. DISPOSAL CONSIDERATIONS

EPA HAZARDOUS WASTE CODE: NONE

Product must be disposed of properly under Federal and State regulations for industrial wastes. Recommended disposal is incineration or Disposal in a Class D landfill of absorbed wastes pending approval. As delivered, this product when spilled, released or disposed of, is a non-hazardous waste as defined in RCRA regulations 40 CFR Part 261.

SECTION 14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: P. O. G. SOLVENT
DOT HAZARD CLASS: Not Regulated
DOT IDENTIFICATION NO. None
DOT PACKING GROUP: None
DOT RQ FOR PRODUCT: NA
DOT MARINE POLLUTANT: NA
EMERGENCY RESPONSE GUIDE NUMBER: None

CANADIAN TDG/WHMIS REGULATIONS:

TDG NAME: P. O. G. SOLVENT
TDG CLASS: Not Regulated
PIN NUMBER: None
WHMIS: D 2 B

SECTION 15. REGULATORY INFORMATION

TSCA: The ingredients of this product are on the TSCA inventory.

SARA TITLE III HAZARD CATEGORIES

SECTION 311: ACUTE: YES CHRONIC: NO
SECTION 313: NONE
FIRE HAZARD: NO
REACTIVE HAZARD: NO
SUDDEN RELEASE OF PRESSURE: NO

PROPOSITION 65: NONE

STATES RIGHT TO KNOW

MASSACHUSETTS: NONE
PENNSYLVANIA: NONE

CALIFORNIA SCAQMD: NONE

EEC Classification: Irritant

This product, as delivered, is not regulated as a hazardous substance.

SECTION 16. OTHER INFORMATION

PLEASE NOTE! Use only as directed. Do not mix with other chemicals unless advised by supplier.