

## MATERIAL SAFETY DATA SHEET – ECO-SOLVE

Manufactured by: Alklean Industries, Inc.  
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### SECTION I – PRODUCT IDENTIFICATION

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Product Name: ECO-SOLVE  
Synonyms:  
Chemical Description: Aliphatic Hydrocarbon  
Intended Use: Industrial Degreaser

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### SECTION II – HAZARDOUS INGREDIENTS

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Chemical ID	CAS Number	% Weight	OSHA PEL	ACGIH TLV
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### SECTION III – PHYSICAL & CHEMICAL PROPERTIES

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Appearance and Odor: green liquid	pH:
Boiling Point °F/C: 349F	Specific Gravity (Water=1): <.85
Vapor Pressure (mm Hg): 1 @ 57.2°F	Melting Point (°F/C): N/A
Vapor Density (Air=1): 4.7	Evaporation Rate (Butyl Acetate=1): 151.0
Solubility in Water:	

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### SECTION IV – FIRE AND EXPLOSION HAZARD

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Flash Point (Method): 117–122°F Flammable Limits (LFL/UFL): 0.7% / 6.1%

Extinguishing Media: alcohol foam, carbon dioxide, or dry chemical

Special Fire Fighting Procedures: Wear self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode.

Fire and Explosion Hazards: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
All 5 gallon pails and larger metal containers, including tank cars and tank trucks should be grounded and/or bonded when material is transferred.  
Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

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**SECTION V – HEALTH HAZARD AND FIRST AID**


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Routes of Entry (Inhale, Ingest, Skin, Eye): All

Health Hazard (Acute and Chronic): 100 ppm permissible exposure limit.

Inhalation - Excessive inhalation can cause nasal and respiratory irritation. Central nervous system effects include dizziness, weakness, fatigue, nausea, and even death.

Ingestion - Gastrointestinal irritation, nausea, vomiting & diarrhea.

Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

Skin - Slight irritation; prolonged or repeated exposure may dry the skin; redness, burning, drying, cracking, skin burns. Repeated contact may cause sensitization.

Eyes - Moderate irritation, redness, tearing, swelling

Carcinogen/Details:

OSHA Regulated?

**Signs and Symptoms of Exposure:** See "Health Hazard" above

Medical Conditions Generally Aggravated by Exposure:

**Emergency and First Aid Procedures:**

Inhalation - Move individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet; get medical attention immediately.

Ingestion - DO NOT induce vomiting. Keep person warm and quiet and get medical attention immediately. Aspiration of material into lungs due to vomiting can cause chemical pneumonitis which can be fatal.

Skin - Flush exposed area with cold water and wash thoroughly with mineral oil. Remove contaminated clothing.

Eyes - Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention.

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**SECTION VI – STABILITY AND REACTIVITY**


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Stability: Stable                      Conditions to Avoid: Contact with strong oxidizers

Incompatibles: strong oxidizing agents

Hazardous Decomposition:

Hazardous Polymerization: Will Not Occur                      Conditions to Avoid:

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**SECTION VII – HANDLING AND STORAGE**


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Handling:

Respiratory Protection: None, unless concentrations may exceed 100 ppm. In this event, NIOSH approved respirator may be necessary to prevent overexposure.

Ventilation: Sufficient general and local exhaust to maintain exposure below 100 ppm.

Hand Protection: Rubber gloves                      Eye Protection: Chemical splash goggles

Other Protective Clothing/Equipment: Impervious clothing and boots.

Work/Hygienic Practices: Wash contaminated clothing before re-use.

Storage:

Other Precautions: Empty product containers may contain residues of this product (vapor, liquid, solid). All hazard precautions given for this product must be observed. Keep away from children and untrained personnel.

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**SECTION VIII – SPILL AND DISPOSAL**

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Containment: Eliminate all ignition sources (flares, flames including pilot light, electrical sparks). Prevent additional discharge of material, if possible to do so without hazard. Prevent liquid from entering drains, sewers, watercourses, or low areas. If runoff occurs, notify authorities as required. In a public area, keep public away and advise authorities.

Clean-Up: Small Spill - Absorb liquid on vermiculite, floor absorbent, or other absorbent material. Large Spill - Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Disposal: Disposal of waste may be subject to federal, state, and local regulations. Users should review their regulations.

Other Emergency Advice:

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**SECTION IX – TRANSPORTING**

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DOT hazard class: Combustible  
5 gallon pails and larger metal containers, including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

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**SECTION X – REGULATORY INFORMATION**

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**SECTION XI – NFPA HAZARD RATINGS**

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	Health	0		
	Flammability	2		
	Reactivity	0		
0 = Minimal	1 = Slight	2 = Moderate	3 = Serious	4 = Severe

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**SECTION XII – OTHER INFORMATION**

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*This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.*

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**SECTION XIII – REFERENCES**

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END