

Material Safety Data Sheet

This MSDS complies with OSHA's
Hazard Communication Standard
29 CFR 1910.1200.

SECTION I – Product Identification

IDENTITY

ACES III

Manufacturer's Name American Clean Energy Systems, Inc.	Emergency Telephone Number 866-533-9922
Address P.O. Box 175 Volant, PA 16156	Telephone Number for Information 866-533-9922
Hazardous Classification Not Applicable	

SECTION II – Hazardous Components

Ingredient	% (KW)	PEL	TLV
Various Esters	95	Note: PEL / TLV not established for this product	

SECTION III – Physical Data

Property	Refinement	Measurement
Initial Boiling Point	For Product	466 Deg. F 241.11 Deg. C 4.00 MMMG
Vapor Pressure	For Product	0.02 MMMG 262.00 Deg. F 127.77 Deg. C
Vapor Density	Air	12.7
Specific Gravity		1.165 62.00 Deg. F 20.00 Deg. C
Percent Volatiles		0.00%
Evaporation Rate		Slower than ether

SECTION IV – Fire and Explosion Data

Flash Point	437.00 Deg. F 225.00 Deg. C
Explosive Limit (Product)	lower than .4%
Extinguishing media: Regular foam or carbon dioxide, or dry chemical.	
Hazardous Decomposition products, may form toxic materials, carbon dioxide and carbon monoxide, phosphorous compounds, etc.	
Special Firefighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires.	
Unusual fire & explosion hazards: Never use welding or cutting torch on or near drum.	

SECTION V – Health Hazard Data

Permissible exposure level not established for product.

Effects of overexposure: For Product
EYES – Can cause irritation
SKIN – Can cause irritation
BREATHING – Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.
SWALLOWING – Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

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FIRST AID:

If on skin, thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

If in eyes, flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

If swallowed, immediately drink two glasses of water and induce vomiting by either giving Ipecac Syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If breathed: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

PRIMARY ROUTES OF ENTRY:

Inhalation

Skin Contact

SECTION VI – Reactivity Data

Hazardous Polymerization: Cannot occur

Stability: Stable

Incompatibility: Not applicable

SECTION VII – Spill or Leak Procedures

Steps to be taken in case materials is released or spilled:

SMALL SPILL: Collect in Beaker

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights , electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, or other absorbent material and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Waste Disposal Method:

SMALL SPILL: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining materials in accordance with applicable regulations.

LARGE SPILL: Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

SECTION VIII – Protective Equipment To Be Used

Respiratory Protection: Not required under normal conditions or use.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected, or apparent adverse effects).

Protective Gloves: Wear resistant gloves such as neoprene.

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised. However, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier).

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

SECTION IX – Special Precautions or Other Comments

Containers of this material may be hazardous when emptied, since empties containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given in the data sheet must be observed.