



## Product Data Sheet

### Product Name: BIO-SCRUB X

**Description:** Highly biodegradable oil-based vapor scrubbing solution. Designed to absorb hydrocarbons such as benzene, toluene, xylene, aromatics, etc. in wet scrubbers or bubble-up type units. Contains no surfactants or perfumes. Contains methyl esters. High flash point. Non-toxic formula. Not for use in cold temperatures. Non-Foaming formula. Incompatible with rubber or like materials and gaskets.

Product Uses & Applications		Application Instructions	
Vapor Scrubber Systems		Dilution Rate	Does not dilute with water
Bubble-Up Systems		Application Methods	For use in scrubber systems only
Solvent Absorption Systems		Special Instructions	None.
		<b>Scrubbing Instructions:</b>	
		Add BIO-SCRUB X to reservoir and <b>DO NOT</b> dilute with water. Make sure there are no pumps seals which are made from rubber as this product will cause them to swell and fail.	
Hazardous Information		Packaging Information	
Specific Hazard	Eye and Skin Irritant!	Available Quantities	5,30, 55, and bulk quantities
Flash Point (°F)	Above 220	Packaging Material	Poly
Biodegradability	Excellent	<b>Other Information:</b>	
pH	N/A for Oils	<b>High Freeze point. Do not use this product if temperatures will be below 45F. To avoid freezing, blending this product 50/50 with diesel fuel will bring freeze point down to 32F.</b>	
Unusual Hazards	Incompatible with rubber		
Other Information	Product freezes at 45F		

### Case Study & Application Information

#### November 12, 2007 Chemical Facility - Lake Charles, LA

BIO-SCRUB X was used in a packed column scrubber system that was removing EDC (ethylene dichloride). The customer stated that the scrubber unit with BIO-SCRUB X was removing 70% of the EDC prior to carbon. Previously they were using Carbonil and getting 60% removal of EDC but had issues with foaming.

#### September 14, 2009 Hitchcock, TX

During testing of BIO-SCRUB X we found that we could absorb 99.9% of VOC's coming from Vapor Tech's ELIMINATOR Vapor Scrubber Unit. The ELIMINATOR Scrubber System is a brand new, cutting edge liquid absorber which will enable extremely high removal of VOC's without the use of carbon (we always recommend carbon as a safety net). Using gasoline vapors as a base, we had 800 ppm at the inlet of the scrubber (VOC Meter). On the outlet of the scrubber unit we had a reading of 12 ppm. This is a removal of over 99.9%.

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