



July 3, 2010

Overview Assessment of Dispersant Corexit 9500

By Dr. Michael Castle of Franklin County Ohio, accredited Certified Environmental Risk Auditor (CERA), for over 20 years.

I have been asked to write a brief on the potential dangers of the unlimited and unlawful use of a group of Class-I poisons commonly referred to as dispersants, such as Corexit 9500 which is produced by Nalco Chemical of Naperville, IL. Nalco is a wholly owned Corporation with Executives formerly of Exxon Petroleum Corporation.

This material and its modifications have been sprayed and delivered to the waters of the United States Gulf of Mexico, and the crude oil methane gas catastrophe, in exceedance of 1.26 million gallons as of June 15, 2010. Delivery forms included aerial spray via the US Air Force Spray Fleet, Youngstown, Ohio and a continuous flow eductor from the base of the crude oil plume as it spews forth from the bottom of the broken well-head pipe in the Gulf of Mexico.

Corexit 9500 and its predecessors were originally used after the Exxon Valdez Prince Williams Sound, Canada oil tanker spill of the late 1980's.

This material, CorExit 9500 and modifications are all extremely toxic to humans, wildlife, mammals, birds, fish, and amphibians, all marine foliage and fauna, plant life and all microbial life forms of the aqueous and land environments.

CoreExit dispersants, *et seq*, will **not** pass EPA Protocols of Toxicity Testing of initial, short term exposure of fragile fundulus and Shrimp.

This excerpt is taken direct from Material Safety Data Sheet on CorExit 9500:

Corexit 9500 with ethylene oxide

Corexit 9500 can cause central nervous system depression, nausea, and unconsciousness. It can cause liver, kidney damage, and red blood cell hemolysis with repeated or prolonged exposure through inhalation or ingestion according to

the MSDS. The threat to human health via exposure is characterized as 'MODERATE'."

Ethylene Oxide and adducts, combined with 2-butoxy ethanol is causative of smothering to fish via coating of the gills and red blood cells poisoning. Principally, 9 moles ethylene oxide and precursors are known endocrine glandular impacters, mutant male to female transitions. Unlisted super surfactants of fluorine (less than 1% comp.) causative of implosion of coral reef systems, eradication of species will follow.

I highly recommend that any International Oil Remediation Response entity, fully investigate the safety warnings and dangers attached to the use of these type of chemical compositions. The impacts are at a level of 11 X worse than the devastation of just the chemical toxicity of crude oil, alone.

Dr. Michael Castle
Certified Environmental Risk Auditor, #0009
Sovereign Individual Franklin County Ohio