

## NOTES: Formaldehyde = Carcinogen

The U.S. Department of Health & Human Services on June 10, 2011 listed Formaldehyde, a key ingredient in a popular family of metalworking fluid biocides, as a known Carcinogen. Listed in the 12<sup>th</sup> Report on Carcinogens (12<sup>th</sup> RoC), <http://ntp.niehs.nih.gov/go/roc12> (National Toxicology Program).

*“There is now sufficient evidence from studies in humans to show that individuals with higher measures of exposure to formaldehyde are at increased risk for certain types of rare cancers, including nasopharyngeal (the nasopharynx is the upper part of the throat behind the nose), sinonasal, as well as a specific cancer of the white blood cells known as myeloid leukemia.”*  
(Reported by the U.S. Department of Health & Human Services.)

Formaldehyde-releasing chemistries are cost-effective biocides and have been used for decades in metalworking fluids. The most common formaldehyde-donor chemistry is Triazine, also known as hexahydrotriazine or HHT (CAS 4719-04-4), but it is only one of many formaldehyde condensates EPA-registered for current use in the metalworking industry.

Previous editions of the RoC listed formaldehyde as “a substance reasonably anticipated to be a human carcinogen”. That has now changed to formaldehyde being a “known carcinogen”. So we may expect the U.S. Environmental Protection Agency to respond accordingly.

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**GREENCUT<sup>®</sup> CUTTING/MISTING FLUID** is **SAFE** and does Not use any biocides / pesticides for bacterial control in its formula. GreenCut Fluid is totally safe for humans, animals, fish, land, air and water. Proven and originally approved by Environment Canada under the Environmental Choice Program with a successful thirteen years track record.

Originally Approved by:  
 **Environment Canada**  
under the Environmental Choice Program

GreenCut Cutting Fluid instead eliminates the food source for all bacteria: i.e.-oils of any kind, thereby safely destroying all bacteria in metalworking fluids. GreenCut does this by instant biodegradation of any and all kinds of tramp oils or lubricating oils dripping into the metalworking fluid reservoir where they are broken down into harmless carbon-dioxide and water. That provides for a totally SAFE environment, while removing all sump odors and preventing GreenCut waste.

GreenCut<sup>®</sup> Cutting Fluid will improve machining operations of all metals and alloys by at least 40%, when used at a mix ratio of 1:20 with tap water. GreenCut contains superior metal-cutting chemistry together with anti-rust and anti-foam additives, all of which is SAFE and 100% effective.

Used GreenCut Cutting Fluid is approved for direct sewage disposal after waste metals removal.

GreenCut is easy on the hands and helps heal lacerations and dermatitis. The GreenCut vapors won't cause asthma or breathing problems and will not cause cancer.