



JMN SPECIALTIES, INC.

“The Chemical Solution”

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Glycol Dehydration Systems produce various types of wastes that can be a challenge to remove by chemical cleaning. Cleaning products which have broad cleaning capability can be very aggressive and require neutralization prior to sending for disposal. These products may have personnel exposure issues and also may be considered a hazardous waste when considering disposal. For cleaning contractors, the challenge becomes greater as costs for traditional, aggressive style cleaners may be quite low with the "environmentally friendly" versions in a much higher cost bracket.

In identifying certain types of contaminants, chemists maybe able to more readily specify the type of cleaner to be used. By evaluating each and every system to be cleaned, precise cleaning recommendations may be made with consideration given to safety, exposure limits, and effectiveness of the cleaner, down time of system, neutralization requirements, disposal consideration and costs.

Noted below are the types of contaminant often observed and the type of cleaner normally effective:

TYPE CONTAMINANT

TYPE CLEANER

Light oil and condensate

2-5% blend of surfactants, chealators and alkaline builders. Moderate pH and low foam.

Heavy paraffin or asphaltines

Straight solvent blends or micro- emulsions of water, surfactant and solvents combined with a post flush of 1-5% moderate pH, low foam, alkaline built surfactant cleaner in fresh water.

Light/moderate/heavy oil, burned glycol, Salt, rust and scale

Heavy alkaline/solvent blend or by de-oiling with a surfactant cleaner, followed by a dilute mineral or organic acid blend. Neutralization and passivation is required after acidizing.

Light/heavy water soluble sludge of Burned glycol, hydrocarbons, salts.

Heavy alkaline cleaner/surfactant (20-25%) active, heated to 140°F followed by fresh water rinse