C.C.I.
A Chemical Corporation

SR SOLV

SR SOLV is a heavy metal precipitant used to remove metals from wastewater streams. It is particularly useful in the treatment of wastewater from circuit board and plating operations. **SR SOLV** does not contain any free DMA, which can possibly lead to the formulation of nDMA, or sulfides. **SR SOLV** will not contribute any nDMA to your discharge effluent. The product is effective over a wide pH range and when used as recommended, provides nearly complete precipitation of metals even in the presence of other chelation or sequestering agents.

The sludge cake produced from its use as a heavy metal precipitant is compact, highly insoluble and easily dewatered. Its low solubility means that it is less susceptible to leaching and is more likely to pass leaching tests such as those required by the U.S. Environmental Protection Agency.

Product Characteristics

- Approx. weight per U.S. gallon		10 lb
- pH (neat)		10-13
- Flash Point	Above 100 deg.C	(212 deg.F)

Application

The weight of **SR SOLV**, equivalent to a unit weight of metal ion, is approximately equal to 358 times the metal valence divided by the atomic weight of the metal. Table 1, shows the concentration of **SR SOLV** equivalent to 1.0 mg/l (1 ppm) of various metal ions. The recommended dosage for complete precipitation of a metal is 10 to 30/in excess of the stoichiometric equivalent. For example, for Cu+2 is 11.3 parts by weight of **SR SOLV** per 1.0 part of Cu+2, but about 13 parts of **SR SOLV** would be needed for complete precipitation. For best results, the required concentration of a given application should be determined by laboratory tests. If practical, adjustment of the pH to values between 7 and 9 can often improve the effectiveness of the Precipitant.

SR SOLV can be added continuously or batchwise as required. The treated effluent should be agitated, usually for at least one hour, and then allowed to settle. Cationic polyelectrolyte flocculants can be used to improve the efficiency of the separation of the precipitate from the liquid.

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Table 1
SR SOLV /Metal ion Stoichiometric Equivalents
SR SOLV

Metal ion	Equivalent Concentration
Ag+2	3.8
Au+1	2.3
Au+2	4.1
Au+3	5.9
Cd+2	6.9
Co+2	12.6
Cr+3	21.2
Cu+2	11.8
Fe+2	13.3
Hg+2	4.1
Hg+1	2.3
Mn+2	13.5
Ni+2	12.7
Pb+2	4.0
Zn+2	11.5

Handling

Improper handling of this product can be injurious to workers. Observe all safety precautions shown on the product label and in the Material Safety Data Sheet.