



# RAMYAR SHIMI CO.

Chemicals For Petroleum Industries



## ML 33 : A LIQUIDE ACID RUST AND SCALE REMOVER

### ADVENTAGES

Safer to use than raw acid, Inhibited against attack on sound metal, Works rapidly and effectively.

Wide range of applications ML 33 . is a specially formulated acid for the following uses :

Removing rust and scale from water meters , hot water heaters , heat exchanger condensers , refrigerating coils , water jackets of gas line motors and diesel engines ,etc.

Removing rust and corrosion from ferrous tools , parts , etc.

Removing dried concrete and cement dust from ready – mix trucks prior to painting .

Removing rust and scale from automotive radiators .

### PRODUCT DESCRPTION

ML 33 .is a water – thin liquid inhibited muriatic acid .

### DIRECTIONS FOR USE

Removing rust and scale from water meters , hot water heaters , heat exchangers , condensers , refrigerating coils , water jackets of gasoline motors and diesel engines , etc.

Concentration : ML 33 . at 1 part to 9 parts of water mixed in and acid resistant container .

Tim : Usually several hours .

Application : Fill or pump into the system. Circulate . If possible, for best results. RAMA booster may be used if silica content of the deposit is above 107 . Use 5 lbs . Rama Booster for every 10. Gals . ML 33 . Drain. flush : then neutralize with an alkaline solution .

Removing rust and corrosion from ferrous tools ,etc.

**Concentration** : ML 33 .at 1 part to 2-4 parts of water ( in an acid resistant container ) .

**Application** : Immerse parts in above solution ( only long enough to remove the deposits ) . Remove , rinse well water ; then dip in alkaline solution ( to neutralize).

Removing dried concrete and cement dust from ready-mix trucks prior to painting .

Concentration : 1 : 1 with water .

**Application** : Steam off grease and oil with RAMA 515 ( 3 qts. /10 gals. Water ) chip off heavy concrete deposits ; wash with ML 33 . solution ( reapply if necessary ); flush off with water ; steam off again with NATA 515 ( 2 gals . water ) to neutralize acid ; then rinse off with steam . Sand rough spots and paint .

Removing rust and scale from automotive radiators .

**Concentration** : 1 part ML 33 . to 2 parts water .

**Application** : Remove radiator from engine . Place radiator at 20 angle ,(top down with filler and top hose openings plugged , pour in approximately 1 gallon solution at lower hose opening ). Let stand 10 minutes . Shake radiator vigorously . Let stand 10 minutes . Shake radiator vigorously . Let stand 10 minutes more, then shake again . pour solution back into crock . neutralize with alkaline solution , then flush out with water .

### TECHNICAL DATA

Form : water thin liquid .

PH/ 1% solution : 1.5 .

Weight per gallon : 9.55 lbs .

