



**VCI FORMULATED PRODUCTS FOR PROCESS INDUSTRIES**

gas oil  
brine

# S-11

## PRODUCT DESCRIPTION

S-11 corrosion inhibitor is a proprietary blend of secondary and tertiary acetylenic alcohols and diols, aromatic, quaternary salts and nonionic surfactants. S-11 is designed as an acid corrosion inhibitor for aqueous systems. Examples of suitable systems include acid pickling, chemical cleaning, additive for water-based coatings, inks, and fountain solutions that have a pH less than 5.

S-11 is also a suitable replacement for propargyl alcohol with the added advantages of being less toxic, safer and more environmentally acceptable.

S-11 is miscible with most hydrocarbons, chlorinated solvents, ketones, alcohols and glycols.

## FEATURES

- Economical
- Safe to use
- Environmentally safe
- Multimetal protection
- Miscible with most hydrocarbons
- Replacement for propargyl alcohol

## APPLICATION

S-11 prevents corrosion of metals that can occur in low pH aqueous systems. S-11 can be used in mineral acid systems of hydrochloric, sulfuric, sulfanic and phosphoric acids. S-11 will maintain a stable pH in an aqueous system so that early cross-linking and water sensitivity do not occur. S-11 is used 0.1 - 1.0% on total formula, and can be post-added if desired.

The concentration of inhibitor required depends on the nature of the scale to be removed. In general, S-11 is effective at low concentrations, but at temperatures over 200°F (93°C), higher concentrations of S-11 corrosion inhibitor may be needed (0.50-1.0%). However, the most effective concentrations are best determined by laboratory tests.

## PHYSICAL PROPERTIES

Appearance	Clear dark brown liquid
Flash point, TCC	78°F (26°C)
Odor	Mild
Pour Point	< -40°F (-40°C)
Density	7.8-8.0 lb/gal (0.96 - 0.96 kg/l)

## PACKAGING

S-11 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**FOR INDUSTRIAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**  
**KEEP CONTAINER TIGHTLY CLOSED**  
**NOT FOR INTERNAL CONSUMPTION**  
**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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