



VpCI® FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

G-6

PRODUCT DESCRIPTION

G-6, benzotriazole, is a proven corrosion inhibitor for copper and copper-based alloys. G-6 functions by reacting with surface copper oxides to form a strong, insoluble polymeric complex. This complex creates a protective layer or film on the copper surface, 10- to 20- molecule thick, that provides both a mechanical and electrochemical barrier against corrosive attack. This protective layer has a high degree of thermal and oxidative stability and cannot be easily removed. G-6 complexes copper ions in solution, thereby preventing galvanic corrosion of other metals in contact with copper.

SUGGESTED USES

G-6 can be used in many applications for protecting copper and copper alloys.

- Direct treatment on rolled copper or brass sheets and coils
- Circulating cooling systems such as cooling towers and air conditioning systems
- Functional fluids such as hydraulic fluids, specialty lubricants, automotive coolants, and metalworking fluids
- Wrapping paper and box board for wrapping, interleaving, shipping and storing copper and brass items
- Corrosion protective coatings such as lacquers and waxes
- Cleaners such as soaps, detergents, and strong alkali or acid cleaners
- Fabricated products made from copper and brass
- Artifacts, sculptures, and decoration items

DOSAGE

G-6 is incorporated in liquids at a concentration between 0.1% and 2.0%. It has a near neutral pH at these concentration levels. Liquids may be either aqueous or non-aqueous. It may also be used as a solid or vapor. For a specific recommendation please contact a Cortec representative.

TYPICAL PROPERTIES

Appearance	White to off-white powder
Assay	98-100%
Melting Point	94°-99°C (201°-210°F)
Solubility, wt. %, 25°C:	
Water	1.98
60°C	7.4
Methanol	71.6
Methoxy-2-Propanol	55.0
Isopropanol	53.9
Heptanol	34.6
Ethylene Glycol	150.7
Polyethylene Glycol	47.7
Methyl Ethyl Ketone	46.1
Benzene	1.3
Tetrachloroethylene	0.06
White Mineral Oil *	0.1
Turbine Oil *	0.01

*Petroleum oil formulations containing polar additives, such as tricresyl phosphate and alkylbenzenesulfonic acid derivatives, will increase the apparent solubility.

PACKAGING

G-6 is available in 5 pound (2.3 kg), 50 pound (23 kg), 100 pound (45 kg) fiber drums, and bulk.

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

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