







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 alkylbenzensulfonic 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 MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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Distributed by:



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