**PRODUCT DATA**

**FORMULA 1120**

**COOLING WATER INHIBITOR/DISPERSANT**

**DESCRIPTION AND USE**

FORMULA 1120 is a major formulation in our molybdate series of products for open, recirculating cooling water systems. In addition to the molybdate, the product is formulated with a combination of organic phosphonates, polymeric dispersants, and an azole based yellow metal corrosion inhibitor. Application of this product covers the widest range of makeup water and system operating conditions of any of the molybdate series. Overall, it is designed to maximize the anodic and cathodic protection of mild steel when the treated system is operated with a Langelier Index of 0.5 to 2.0.

**CHEMICAL FEEDING AND CONTROL**

FORMULA 1120 is normally fed continuously to the system being treated. However, shot feeding may be satisfactory in some circumstances. The product may either be fed neat directly from the shipping container or mixed with water in a chemical feed tank. Normal materials of construction are satisfactory for the chemical feed system; however, copper, copper alloys, and aluminum must be avoided.

FORMULA 1120 is controlled by a molybdate test. Normally, the test used tests the molybdate as sodium molybdate utilizing a simple color comparator. Other tests which measure molybdenum may also be used.

**TYPICAL PROPERTIES**

Appearance Yellow liquid

Odor Sweet characteristic

Flash Point None

Specific gravity 1.175 ‑ 1.183

pH (undiluted) 13.8 +0.2

Freeze Point <‑7oC(21oF)

**SAFETY AND HANDLING**

FORMULA 1120 may be toxic by ingestion. Do not take internally. If ingested, drink at least two (2) glasses of water and get medical attention. Contact with eyes causes severe irritation or burns. If eyes are contacted, immediately flush with clear water for 15 minutes and then get medical attention. For skin contact, wash with soap and water. For additional information, see the Material Safety Data Sheet provided with this product.

**PACKAGING**

FORMULA 1120 is packaged in 55, 30, and 15 gallon, non returnable plastic drums and 5 or 6 gallon non-returnable plastic pails.