

## Technical Bulletin

# JEFFCOOL<sup>®</sup> P203 INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

|                     |  |
|---------------------|--|
| <b>GENERIC NAME</b> | Inhibited propylene glycol   |
| <b>DESCRIPTION</b>  | JEFFCOOL <sup>®</sup> P203 is USP grade propylene glycol-based industrial coolant and heat transfer fluid containing corrosion inhibitors and antifoam. It is a 30% by volume mixture of JEFFCOOL <sup>®</sup> P200 and deionized water.   |
| <b>APPLICATIONS</b> | JEFFCOOL <sup>®</sup> P203 heat transfer fluid is intended for use in systems where contact with food or potable water is possible. JEFFCOOL <sup>®</sup> P203 is a heat transfer agent defined by the USDA as acceptable for use in systems such as spray and immersion freezing of packaged food, for cooling batches of beer in breweries and wine in wineries, as a cooling agent in food and dairy product processing, as a heat transfer fluid for snow melting systems, and as a coolant for ice rinks and air conditioning systems (HVAC). The inhibitor package in JEFFCOOL <sup>®</sup> P203 is designed to protect all common metals used in industrial equipment including cast iron and steel up to 300°F and aluminum up to 190°F. JEFFCOOL <sup>®</sup> P203 is certified OU Kosher-Pareve. |

## SALES SPECIFICATIONS

| <u>Property</u>                                   | <u>Specifications</u>                      | <u>Test Method*</u> |
|---|--|---------------------|
| Appearance  | Slightly hazy and free of suspended solids | ST-30.1             |
| Freeze Point, as is                               |  | ASTM D3321          |
| °C  | -12 max.                                   |                     |
| °F  | +11 max.                                   |                     |
| pH, as is   | 9.5 – 10.5                                 | ASTM D1287          |
| Reserve Alkalinity, mL 0.1 N HCl,<br>30 mL sample | 10.0 – 13.0                                | ASTM D1121          |
| Specific Gravity, 60/60°F                         | 1.02 – 1.04                                | ASTM D1122          |
| Water, wt%  | 71 max.                                    | ASTM D1123          |

\*Methods of Test are available from Huntsman Corporation upon request.

## ADDITIONAL INFORMATION

### Regulatory Information

See SDS for all regulatory information.

### Typical Properties

|                             |           |
|-----------------------------|-----------|
| Flash point, COC, °C (°F)   | 100 (212) |
| Color                       | Colorless |
| Density, lb/US gal, 60°F    | 8.6       |
| Viscosity, cSt, 20°C (68°F) | 4         |
| Water solubility, wt%       | >10       |

**TOXICITY AND SAFETY**

For additional information on the toxicity and safe handling of this product, consult the Safety Data Sheet prior to use of this product.

**HANDLING AND STORAGE**

JEFFCOOL<sup>®</sup> P203 coolant may be stored in unlined carbon steel tanks and drums. If storage of concentrated JEFFCOOL P203 coolant for periods exceeding 12 months is desired, it is recommended that the storage vessels be constructed from aluminum, stainless steel, or lined carbon steel. Vinyl, epoxy, and phenolic linings are suitable.

For detailed information on the storage and handling of JEFFCOOL<sup>®</sup> P203 coolant, see our bulletin on "Storage and Handling of JEFFCOOL<sup>®</sup> Coolants."

**AVAILABILITY**

JEFFCOOL<sup>®</sup> P203 coolant is available in tank wagons and 55-gallon, non-returnable steel drums. Bulk and drum inventory of JEFFCOOL<sup>®</sup> P203 is available at select locations throughout the United States.

5116-1014

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