

## Technical Bulletin

# JEFFCOOL® P200 INDUSTRIAL COOLANT AND HEAT TRANSFER FLUID

<b>GENERIC NAME</b>	Inhibited propylene glycol
<b>DESCRIPTION</b>	JEFFCOOL® P200 is USP grade propylene glycol-based industrial coolant and heat transfer fluid containing corrosion inhibitors and antifoam. JEFFCOOL® P200 should be diluted with deionized water to between 30% and 70% by volume depending on the desired freeze point.
<b>APPLICATIONS</b>	JEFFCOOL® P200 heat transfer fluid is intended for use in systems where contact with food or potable water is possible. JEFFCOOL® P200 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® P200 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® P200 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, 50 vol% solution		ASTM D3321
°C	-32 max.	
°F	-25 max.	
pH, 33 vol% solution	9.5 – 10.5	ASTM D1287
Reserve Alkalinity, mL 0.1 N HCl, 10 mL sample	10.5 – 13.0	ASTM D1121
Specific Gravity, 60/60°F	1.05 – 1.06	ASTM D1122
Water, wt%	2.5 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)
Boiling point, °C (°F)	187 (368)
Melting/Freezing point, °C (°F)	<0 (<-32)
Color	Colorless
Density, lb/US gal, 60°F	8.8
Viscosity, cSt, 20°C (68°F)	<70
Water solubility (%)	>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> P200 coolant may be stored in unlined carbon steel tanks and drums. If storage of concentrated JEFFCOOL P200 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> P200 coolant, see our bulletin on "Storage and Handling of JEFFCOOL<sup>®</sup> Coolants."

**AVAILABILITY**

JEFFCOOL<sup>®</sup> P200 coolant is available in tank wagons and 55-gallon, non-returnable steel drums. Bulk and drum inventory of JEFFCOOL<sup>®</sup> P200 is available at select locations throughout the United States.

5115-1014

**Huntsman Corporation  
Business Offices**

10003 Woodloch Forest Dr.  
The Woodlands, TX 77380  
(281) 719-6000

**Huntsman Advanced Technology  
Center**

**Technical Service**  
8600 Gosling Rd.  
The Woodlands, TX 77381  
(281) 719-7780

**Samples 1-800-662-0924**[www.huntsman.com](http://www.huntsman.com)

Copyright © 2007, 2008, 2010, 2012, 2014 Huntsman Corporation or an affiliate thereof. All rights reserved.

JEFFCOOL<sup>®</sup> is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

Huntsman Corporation warrants only that its products meet the specifications stated herein. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, HUNTSMAN MAKES NO WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT OF ANY THIRD PARTY, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND ANY USER OF PRODUCTS DESCRIBED HEREIN SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE AND ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES. Product(s) described in this publication may be hazardous and/or toxic and require special precautions in handling. For all product(s) described herein, the user should obtain from Huntsman detailed information on hazards and/or toxicity, together with proper shipping, handling, and storage procedures, and should comply with all applicable safety and environmental standards. The behavior, hazards and/or toxicity of the product(s) referred to in this publication in manufacturing processes and their suitability in any given end-use environment are dependent upon various conditions such as chemical compatibility, temperature, and other variables, which may not be known to Huntsman. It is the sole responsibility of the user of such product(s) to evaluate the manufacturing circumstances and the final product(s) under actual end-use requirements and to adequately advise and warn future purchasers and users thereof.