

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commandant  
United States Coast Guard

U.S. Coast Guard (CG-5214)  
2100 Second Street, S.W. Stop 7126  
Washington, DC 20593-7126  
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<http://www.uscg.mil/hq/cg5/cg5214/>

16714/164.141/35  
August 11, 2011

Mr. Bryan Hutton  
Lubrizol Advanced Materials, Inc.  
2301 Chestnut Drive  
Little Elm, TX 75068

Dear Mr. Hutton:

We have reviewed your request of June 9, 2011, for approval of your Corzan HP piping system. Your request has been granted, and your Certificate of Approval (COA) is enclosed.

We granted your request based on our review of Southwest Research Institute's (SwRI) test reports numbers 01.16052.01.306d[1], 01.16052.01.306e[1], and 01.16052.01.306h, and Follow-Up Procedure Document number 01.25000.02.194. This approval only addresses the requirements of the FTP Code, and does not alleviate any requirements for plan review of proposed installations of the piping on vessels.

This approval is only valid for products produced by Lubrizol at your Brecksville, OH factory, and does not cover Corzan HP products produced by your licensed manufacturing partners. To ensure appropriate Follow-Up Procedure Document coverage, each partner will be required to apply to this office for a COA for the Corzan HP products they manufacture.

The enclosed certificate will remain valid until August 5, 2016, unless we suspend, withdraw, or terminate it. Approval is contingent upon continued participation in the "follow-up" program established with SwRI. Terms of approval are on the reverse of the certificate.

Please ensure that your products are permanently marked with the manufacturer's name, lot number or date of manufacture and the Coast Guard approval number to allow for identification by the shipyard inspectors.

If you have any questions or concerns on this subject, please contact LCDR Suzanne Hemann at (202) 372-1356 with questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "K. J. Heinz", written over the typed name.

K. J. HEINZ  
Chief, Lifesaving and Fire Safety Division  
U. S. Coast Guard  
By direction

Copy: Commanding Officer, Marine Safety Center (MSC-2)



**U. S. Department of Homeland Security**  
**United States Coast Guard**  
**Certificate of Approval**

Coast Guard Approval Number: 164.141/35/0

Expires: 11 August 2016

PLASTIC PIPING SYSTEMS

LUBRIZOL ADVANCED MATERIALS INC.  
9911 Brecksville Rd  
Brecksville OH 44141

Lubrizol Corzan HP piping system.

Pipe of nominal diameters 1/2" to less than 2" meets Low Flame Spread Requirements of the FTP Code Annex 1, Part 5 only.

Pipe of nominal diameters 2" to 8" meets Low Flame Spread, and Smoke and Toxicity requirements of the FTP Code Annex 1, Parts 2 and 5.

Lubrizol Corzan HP pipe has not been subjected to fire endurance testing and is therefore, not suitable for applications requiring fire endurance testing as indicated in IMO Resolution A.753(18).

Identifying Data: Test Reports: SwRI Project Nos. 01.16052.01.306h dated 18 February 2011 and 01.16352.01.306d[1] and 01.16052.01.306e[1] dated 28 February 2011. Follow-up Procedure Document No. 01.025000.02.194, Revision No. 0 dated July 2011.

Product must be installed in accordance with manufacturer's guidelines; all bonders must hold ASME B31.3 bonder qualifications certificates.

VALID ONLY FOR PRODUCTS MANUFACTURED BY LUBRIZOL AT ABOVE LISTED FACTORY LOCATION.

\*\*\* END \*\*\*

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 11<sup>th</sup> DAY OF  
AUGUST 2011, AT WASHINGTON D.C.

*K. J. HEINZ*  
K. J. HEINZ  
Chief, Lifesaving and Fire Safety Division  
BY DIRECTION OF THE COMMANDANT

TERMS: The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

NOTICE: Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."