

OFFICE MEMORANDUM



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STATE HIGHWAY DEPARTMENT

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APR 14 1965

To: R. L. Greenman, Secretary
Committee for the Investigation of New Materials

From: E. A. Finney

Subject: Rust Dissolver (Research Project 62 NM-68) and Manganesed-Phospholene No. 7 (Research Project 65 NM-133).
Research Report No. R-511.

"Rust Dissolver," produced by the Woodhill Chemical Co., of Cleveland was referred to the Research Laboratory at the Committee's meeting of February 6, 1962. "Manganesed-Phospholene No. 7," supplied by Snip and Anderson Assocs. of Grand Rapids was referred to the Laboratory at the meeting of December 2, 1964.

Both of these materials are liquid derusting agents, based on phosphoric acid, which is used in pickling steel and also as a bonderizing agent.

For derusting or pickling steel, immersion in tanks is used since the process requires time and sometimes heat depending on the amount of derusting or de-scaling required.

The Department might use these derusting liquids to supplement hard cleaning or chipping of rusted bridge structural steel, but this still would require multiple applications by brush or swab. Any undried excess would have to be wiped off before applying paint. Since these derusters are based on an acid, one would hesitate to require field men to use them.

For these reasons, as well as the current preference of the Office of Maintenance for blast cleaning, the Research Laboratory has performed only preliminary evaluation of these agents for possible field use by the Department.

Upon presentation of these facts to the Committee at the March 23, 1965 meeting, it was decided to terminate both research projects without further evaluation.

OFFICE OF TESTING AND RESEARCH

E. A. Finney, Director
Research Laboratory Division

EAF:jk

cc: A. J. Permoda