

Sprayon

Industrial Supply Division

AEROSOL SPECIALTIES

Sprayon Products
Division of The Sherwin-Williams Company
26300 Fargo Avenue
Bedford Heights, Ohio 44146
Phone (216) 252-7400

April 20, 1981

Mr. Allan B. Hughes
E. I. duPont deNemours & Co.
Engineering Department
Wilmington, Delaware 19898

Dear Mr. Hughes:

In reference to our phone discussion last week, enclosed are Material Safety Data Sheets and product information regarding our #711 Penetrant/Lubricant/Demoisturant. We are also enclosing some test results, as conducted by the Department of the Navy, Police Weapons Center, Lawrence Electronics Company and John Carroll University.

Shortly under separate cover you will be receiving a sample aerosol of our product for your own evaluation.

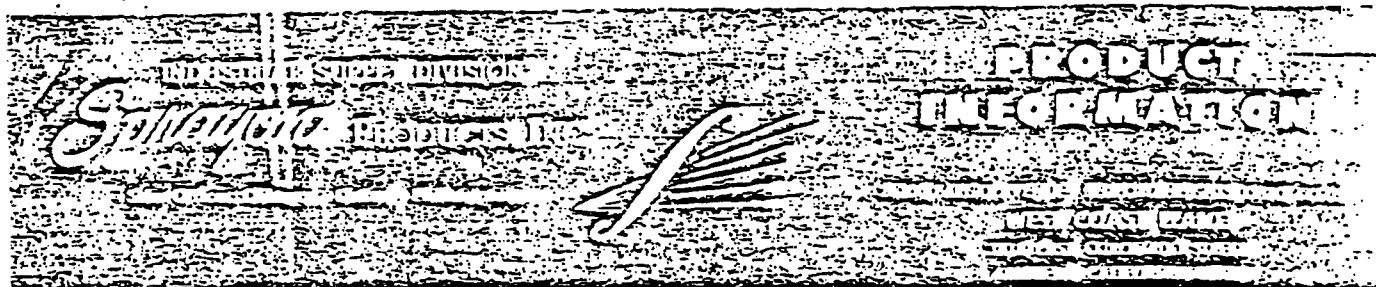
Please don't hesitate to contact me if you have any questions or we can be of further assistance.

Very truly yours,

Carol Krizsan
Industrial Supply Dept.

Carol Krizsan
Enclosures

SHERWIN



The Oldest and Leading Custom Loaders of Aerosol Specialties

No. 711 PENETRANT-LUBRICANT, CORROSION INHIBITOR, DEMOISTURANT

No. 711 has been specifically developed as an ultra-thin, transparent blend of high quality petroleum distillates formulated to ensure maximum moisture displacing characteristics when used on electrical wiring, circuitry, automotive ignition systems and all metal surfaces. The ultra-thin film of this product resists collection of abrasive particles on delicate electrical contacts and connections.

"Spreadability" is the key factor in making this product an excellent penetrating fluid to free parts and mechanisms frozen due to corrosion.

Typical applications:

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|--------------------------------------|--|
| 1. Electrical connectors and relays. | 5. Dries out wet electrical systems. |
| 2. Circuitry. | 6. Lubricates all metal-to-metal parts. |
| 3. Communication systems. | 7. Complete protection against corrosion attack on all metal surfaces. |
| 4. Ignition systems. | 8. Frees rusted parts. |

Technical Information:

Appearance: Clear, Pale Yellow	Flash Fire, COC, °F: 125/125
API Gravity @ 60°F: 43.0	Pour Point, °F: -80°
Specific Gravity: 0.811	Boiling Point, °F: 240°
% Non-Volatile: 25%	Dielectric Strength: 33 KV min. / 0.1" gap (ASTM D-877)
% Volatile: 75%	Lubricity, Falex Step Test: Pass 500 lbs.
Viscosity, cs @ 100°F: 2.00	Film Thickness, mils (0.001"): 0.2

No. 711 will not affect plastic, rubber, fabrics or painted surfaces. Contains no silicone. This product is available in 16-ounce aerosol cans, 12 cans per case. Also available in 1-gallon cans, 5 and 55-gallon containers.

For applications that require prolonged protection against corrosive environments, refer to our PDRP® brand name products.

No. 711 Penetrant-Lubricant, Corrosion Inhibitor, Demoisturant is guaranteed for one year from date of manufacture against any defect in material or workmanship.

Note: Technical specifications and laboratory results on this product are available. Refer to Product Information sheet No. 711-B.

No. 711-A

Penetrating Oils/Rust Preventatives/Lubricants

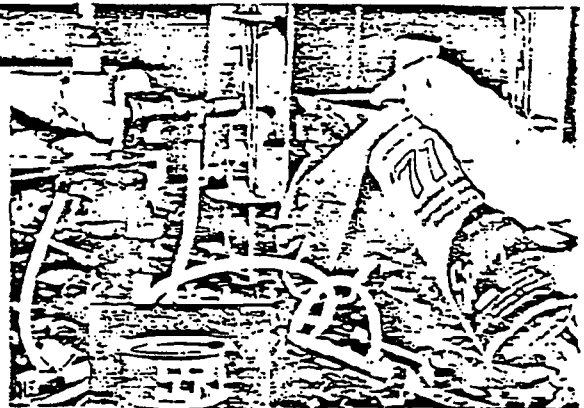
711 PENETRANT LUBRICANT

711 Penetrant Lubricant is a superior combination of high-quality petroleum distillates which acts quickly, penetrates deeply and leaves behind a long-lasting, ultra-thin protective film. 711 actually performs four jobs effectively ... it "frees up" corroded parts and mechanisms, drives out moisture, lubricates and provides long-term corrosion protection. It need not be removed from parts, dies, components prior to assembly or production.

It is harmless to plastic, rubber, fabrics or painted surfaces. Contains no silicones. New valve sprays when held in any position.

Available in aerosols, 1-gallon, 5-gallon, 55-gallon drums.

USES: Electrical connectors, relays, circuit breakers, controls, communication assemblies, bus bars, guide rails, generators, instruments, tooling, hand tools, motors, oscillators, ignitions, transformers, transmitters, gears, machine tools, weapons, sporting goods, many automotive applications, production equipment of all kinds.



PDRP PENETRANT RUST PREVENTIVE

PDRP products feature extremely low surface tension — much lower than that of water. This permits PDRP to force its way under water (between it and metal surfaces) to effectively displace moisture. High capillary action causes rapid, wide dispersion. In the process a thin molecular film is formed which effectively seals out both water and oxygen. The film is remarkably durable and actually expands and contracts with the metal.

PDRP materials are available in aerosols, 1-gallon, 5-gallon, 55-gallon drums.

PDRP has a great affinity for metals ... penetrates the smallest invisible openings, including the tiny pores of metal grain.

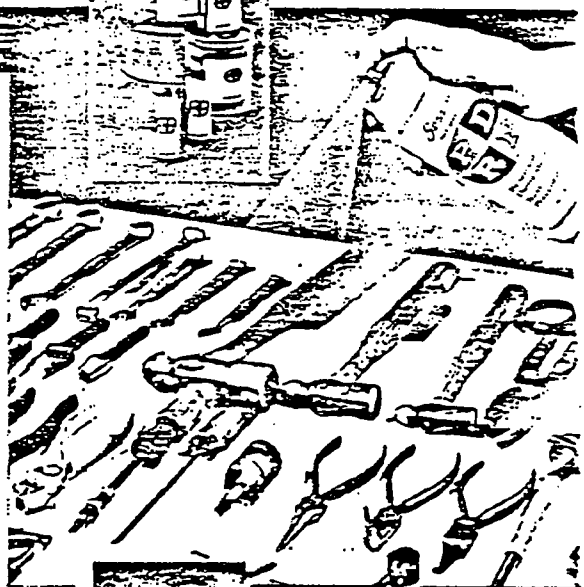
USES: PDRP No. 706 meets specification Mil-C-81309 for short-term total rust prevention. Plated and painted surfaces, armatures, commutators, tools, dies, assemblies, in-process parts, engines, generators, military and aerospace equipment.

PDRP No. 707 meets specification Mil-C-23411 for heavier duty short-term rust prevention. Plated, painted, metal surfaces; locks, hinges, threads, marine engines, submerged electrical receptacles, in-process parts, sub-assemblies.

PDRP No. 710 (a product similar to Cosmoline) meets specification Mil-C-16173 D Grade IV for rugged, long-term outdoor or salt water protection. External surfaces of machines, machine tools, internal combustion engines, fabricated parts, tubings and stampings, tools, dies, outdoor electric systems, aircraft cargo pits and landing gear.

NOTE: These are the differences between 711 and PDRP products.

711 provides an ultra-thin film for light-duty applications. (Clear film). PDRP offers a heavier film for heavy-duty applications. (Amber film). In most cases 711 need not be cleaned from parts before further processing. In some cases PDRP film must be removed with petroleum solvents.



Bulk spray applicator for use with 1-gallon, 5-gallon, 55-gallon bulk PDRP and 711.

INC-208 PENETRATING OIL

This is a special light oil for rapid release of rusted and corroded parts. It has wide application in maintenance and production operations. Low surface tension permits complete penetration. Jet-stream delivery gives pinpoint control, eliminating waste by assuring saturation coverage of working area only.

Ideal for lubrication of tight-fitting parts. Will not harm painted surfaces. May be safely applied on or near moving parts as it can accurately be directed from a distance of two feet. Second application is necessary only in extreme conditions. Easy to carry to or from the job.

USES: Release of rusted or frozen lugs, bolts, screws, fasteners and metal components; lubrication of tight-fitting parts; general overhaul or repair work, light lubrication of locks, hinges, tools.

