

INCH-POUND

A-A-52408

August 31, 1993

SUPERSEDING

MIL-P-11520F

10 May 1989

COMMERCIAL ITEM DESCRIPTION

PRESERVATIVE COATING, RUBBER:
FOR RUBBER SURFACES

The General Services Administration has authorized the use of this commercial item description (CID) as a replacement for MIL-P-11520F, which is canceled.

ABSTRACT.

This CID covers preservative coating for the protection of natural or synthetic rubber items such as tires, track pads, bogey wheels, gaskets, hoses, and others. Its purpose is to eliminate deterioration due to oxidation, ultraviolet light and ozone. The material can be used where solvent vapor is not a hazard. The preservative is suitable where storage temperatures may be below 32°F. It is intended for spray, brush or dip application. The preservative coating is also referred to herein as "preservative".

SALIENT CHARACTERISTICS.

a. Materials. The preservative shall conform to the physical properties and performance requirements specified herein. The use of recovered material made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see note e). Hazardous materials shall be handled in accordance with 29 CFR Chapter XVII.

b. Toxicity. The preservative shall contain no substances of known toxicity, and shall conform to Rule 442 of the South Coast Air Quality Management District (see Salient Characteristics (SC)).

c. Homogeneity. The preservative shall remain in a completely homogenous state. The homogeneity shall be verified by visual examination of container contents upon opening an as received, non-agitated container for separation of ingredients.

Beneficial comments, recommendations, additions, deletions clarifications, etc. and any other data which may improve this document should be sent by letter to: U.S. Army Tank-Automotive Command, ATTN: AMSTA-GDS, Warren, MI 48397-5000.

AMSC N/A

FSC 8030

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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d. Viscosity. The viscosity shall be such that the preservative shall pass through a number 4 Ford cup in not more than 60 seconds when tested in accordance with American Society for Testing and Materials (ASTM) D1200.

e. Dry time. Applied preservative shall be dry to the touch in no more than 60 minutes, when touched with clean white laboratory filter paper for no less than 5 seconds. The paper shall show no indication of wetting or discoloration.

f. Accelerated storage. The preservative shall be free from gelation, hard caking, separation, or other visible signs of deterioration or nonconformance after storage for 28 days in typical storage containers at both $120^{\circ} \pm 5^{\circ}\text{F}$ and $20^{\circ} \pm 5^{\circ}\text{F}$. The preservative shall then conform to SC b through e.

g. Discoloration. The discoloration of the natural or synthetic rubber products treated with the preservative shall be kept to a minimum.

h. Ozone resistance. Five preserved type A test specimens shall be free of cracks and crazing when examined under 7-power magnification after 25% elongation and exposure to an air and ozone mixture of 50 ± 5 parts ozone per one hundred million (pphm) of air by volume for 200 ± 1 hours, or 100 ± 10 pphm of ozone for 100 ± 1 hours, at $104 \pm 2^{\circ}\text{F}$ in accordance with ASTM D1149.

i. Penetration and retention of preservative. The average minimum increase in weight for five preserved test specimens shall be at least 2% of the weight of the five test specimens prior to preservation, when weighed 24 ± 1 hour after preservation to the nearest .0001 gram. Test specimens shall be 3×1 inches.

j. Unit container sizes. The preservative shall be available in the following unit container sizes: pints, gallons, 5 gallon pails, and 55 gallon drums (see note b and c).

k. Material safety data sheet (MSDS). A MSDS shall be prepared in accordance with the latest revision of FED-STD-313 (see note b and f).

l. Identification and markings. Each unit container (see SC j) shall be marked in accordance with MIL-STD-129 and shall include as a minimum the manufacturer's name, the date of manufacture, and CID PIN (see note c).

m. Test specimens. Test specimens shall conform to the composition shown in table I. Rubber test specimens shall be cured into sheets 0.075 inch in thickness under a minimum pressure of 500 psi at a temperature of 307°F for 30 minutes. Unless otherwise specified (see note b), test specimens shall be thoroughly cleaned of all contaminants and preservative applied by hand brushing until completely treated or saturated.

TABLE II. Rubber test specimen composition.

Material	Parts by weight
SBR 1500	100.0
HAF Type Carbon Black (N330)	50.0
Zinc Oxide	3.0
Stearic Acid	1.5

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TABLE II. Rubber test specimen composition - Continued.

Material	Parts by weight
Highly Aromatic Process Oil	7.0
Sunolite 240 (WHITCO)	1.5
Santoflex 13	3.5
Sulfur	2.0
Tertiary-Butyl Benzothiazole Sulfenamide (TBBS)	1.25

QUALITY ASSURANCE PROVISIONS

a. Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

b. Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this CID and that the product conforms to the producer's own drawings, specifications, workmanship standards, and quality assurance practices. Items with known defects shall not be submitted for Government acceptance. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

PRESERVATION, PACKAGING, PACKING, LABELING, AND MARKING

a. Preservation, packaging, packing, labeling, and marking for the desired level shall be as specified in the contract or order (see note b).

b. Additional labeling and marking. When applicable, all unit containers shall be marked with necessary personnel hazard precautions and necessary equipment to be used, e.g., breathing apparatus, rubber gloves. If special spraying equipment is required to apply the preservative, it shall be marked on all unit containers. Hazardous materials shall be marked in accordance with MIL-STD-129.

NOTES.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

a. Addresses for obtaining copies of referenced documents.

1. Government specifications and standards. Copies of MIL-STD-129, Marking for Shipment and Storage; and FED-STD-313, Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities are available from the Navy Publications and Printing Service Office, Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

2. Other Government documents, drawings, and publications. Copies of Title 29, Chapter XVII, Occupational Safety and Health Administration, Department of Labor are available from the contracting activity or as directed by the contracting activity.

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3. Non-Government publications. Copies of ASTM D412 "Rubber Properties in Tension", ASTM D1149 "Rubber Deterioration - Surface Ozone Cracking in a Chamber", ASTM D2170 "Kinematic Viscosity of Asphalts (Bitumens)", and ASTM E442-91 "Chlorine, Bromine or Iodine in Organic Compounds by Oxygen Flask Combustion" are available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

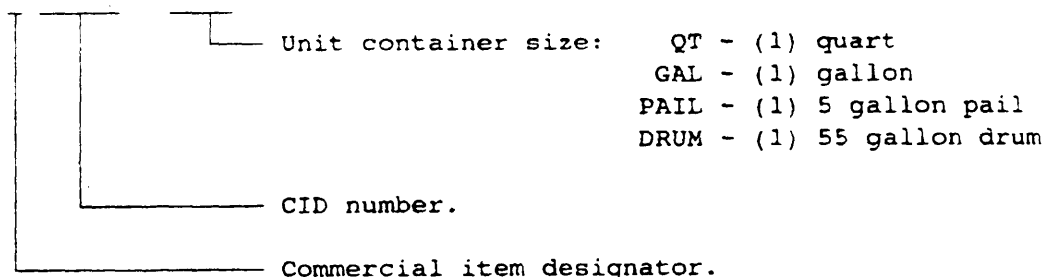
Copies of Rule 442, Usage of Solvents are available from South Coast Air Quality Management District, 9150 Flair Drive, El Monte, CA 91731.

b. Ordering data. Acquisition documents must specify the following:

1. Title, number, and date of this commercial item description.
2. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced.
3. Unit container size and PIN.
4. Identify activities requiring copies of completed MSDS and specify when the MSDS will be inspected.
5. Whether test specimens should not be cleaned.
6. Whether the application of preservative on test specimens is other than as specified.
7. Selection of applicable level and packaging requirements.

c. Part or identification number (PIN). The PIN to be used for preservative acquired to this CID is as follows:

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d. Cross-reference data. Preservative conforming to this CID is substitutable/interchangeable with preservative conforming to MIL-P-11520F.

e. Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practical.

f. MSDS. The contracting officer should identify those activities requiring copies of the completed MSDS prepared in accordance with FED-STD-313. Additional pertinent Government mailing addresses for submission of data are listed in appendix B of FED-STD-313.

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MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

Custodians:

PREPARING ACTIVITY:

Army - AT
Air Force -69

Army - AT

(Project 8030-0652)

Review activities:

Army - GL, MR, SM, ME
Navy - AS

User activities:

Army - AR
Navy - SH, OS, MC