

INCH-POUND  
MIL-P-15931F  
AMENDMENT 1  
16 September 1994

MILITARY SPECIFICATION

PAINT, ANTIFOULING, VINYL  
(FORMULAS NO. 121A AND 129A)

This amendment forms a part of Military Specification MIL-P-15931F, dated 19 June 1991, and is approved for use by the Naval Sea Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Title: Delete: "121," and ", 129".

1.1, line 2: Delete the following: "121," and ", 129".

1.2, Type I: Delete the line "Class 1 - Formula No. 121 (contains Tricresyl phosphate)."

1.2, Type II: Delete the line "Class 1 - Formula No. 129 (contains Tricresyl phosphate)"

Beneficial comments block: Delete "55Z3, Department of the Navy, Washington, DC 20362-5101" and substitute "03R42, 2531 Jefferson Davis Highway, Arlington, VA 22242-5160".

PAGE 2

2.1.1, FEDERAL: Delete the following listed specification: "TT-T-656 - Tricresyl Phosphate.

PAGE 4

Table I, Ingredients column: Delete "Tricresyl phosphate" and substitute "Plasticizer". Delete "Methyl ethyl ketone 4/" and substitute "Solvents". Delete "Xylene".

Table I, Specifications column: Delete "TT-T-636". "ASTM D 1153" and "ASTM D 846".

TABLE I, Parts by weight: Delete the column for Formula 121 in its entirety.

AMSC N/A

FSC 8010

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MIL-P-15931F  
AMENDMENT 1

Table I, Formula 121A column: Delete "165" and substitute "4". Delete "115".

Table I, footnote 4/: Insert before word "This...": "Solvent choice shall be the responsibility of the manufacturer except that the final product shall meet all requirements of this specification."

TABLE I, footnote 5/, line 2: Delete "...s 121 and".

PAGE 5

Table II, Ingredients column: Delete "Tricrystyl phosphate" and substitute "Plasticizer". Delete "Methyl ethyl ketone 5/" and substitute "Solvents". Delete "Xylene".

Table II, Specifications column: Insert "...or ASTM D 912" after MIL-15629. Delete "TT-T-636". "ASTM D 1153" and "ASTM D 846".

TABLE II, Parts by weight: Delete the column for Formula 129 in its entirety.

Table II, Formula 129A column: Delete "173" and substitute "5". Delete "112".

Table II, footnote 5/: Insert before word "This...": "Solvent choice shall be the responsibility of the manufacturer except that the final product shall meet all requirements of this specification."

TABLE II, footnote 6/, line 1: Delete the "...s 129 and".

PAGE 6

TABLE III: Characteristics column: Delete entry beginning "Tricresyl Phosphate...." in its entirety. Flash point line: change "<sup>o</sup>F 5/" to "<sup>o</sup>F (<sup>o</sup>C) 4".

Table III, Requirements column: Delete the columns for Formula 121 Minimum and maximum in their entirety. Formula 121A Minimum column: Flash point line: delete "75" and insert "68 (20)". Formula 121A Maximum column: Delete "0.0" entry for Tricresyl phosphate.

Table III, footnote 4/: Delete in entirety.

Table III, footnote 5/: Renumber as 4/. After "(<sup>o</sup>F)", insert "; Centigrade (<sup>o</sup>C)"

MIL-P-15931F  
AMENDMENT 1

PAGE 7

TABLE IV: Characteristics column: Delete entry beginning "Tricresyl Phosphate...." in its entirety. Flash point line: change "°F 5/" to "°F (°C) 4/".

TABLE IV, Requirements column: Delete the columns for Formula 129 Minimum and maximum in their entirety. Formula 129A Minimum column: Flash point line: delete "75" and insert "68 (20)". Formula 129A Minimum and Maximum columns: Delete entries for Tricresyl phosphate.

TABLE IV, footnote 4/: Delete line beginning "Maximum-..." in entirety and insert "Degrees Fahrenheit (°F), degrees Centigrade (°C)."

After table IV, insert new paragraph and table, as follows:

"3.3.1 Hazardous air pollutants (HAPs). When tested in accordance with 4.6.2.4, the content of HAPs listed in table V in the total F. 121A and F.129A compositions shall not exceed the weight percent (%WT) quantities listed therein.

TABLE V. Hazardous solvent content.

Hazardous Solvent in total enamel	Maximum, %WT
Benzene	0.05
Chlorinated solvent(s), total	0.05
Carbon tetrachloride	
Chloroform (Trichloromethane)	
Methylene chloride (Dichloromethane)	
Tetrachloroethylene (Perchloroethylene)	
1,1,1-Trichloroethylene (Methyl chloroform)	
Trichloroethylene	
Ethyl benzene	0.05
Methyl, ethyl and butyl mono-ethers of Ethylene glycol or the acetates, total (Methyl, Ethyl and Butyl Cellosolves and acetates)	0.05
Methyl ethyl ketone (MEK)	0.05
Methyl isobutyl ketone (MIBK)	0.05
Toluene	0.05
Xylene (all forms), total	0.1"

MIL-P-15931F  
AMENDMENT 1

PAGE 8

3.4.2: Delete from line one the "...s 121 and". Delete from line two the "...s 129 and". Insert in line two between the word "the" and "ASTM" the following: "MIL-P-15169 and/or".

3.4.8, line 3: Delete "V" and insert "VI".

PAGE 9

3.4.10.1: Delete from the paragraph title: "...s 121 and"

3.4.10.2: Delete from the paragraph title: "...s 129 and"

3.4.13: Delete last sentence "This label...number." Insert "Container label shall be in accordance with the manufacturer EPA registration."

PAGE 10

4.3, line 4: Delete "V" and insert "VI".

4.4, line 2: Delete "IV" and insert "VI".

PAGE 11

4.6.2, line 2: Delete "V" and insert "VI".

TABLE V: Renumber as "TABLE VI". Delete from line eleven: "Tricresyl phosphate or ". Insert new Line:

In test column: insert "Hazardous solvents 3/"

In FED-TEST column: insert: "7356; 7360".

In ASTM column: insert "E 1252".

TABLE VI (renumbered): Insert new footnote, as follows:

"3/ Test in accordance with 4.6.2.4."

PAGE 12

TABLE V: Delete from line two: "121, " and ", 129, ". Delete form line three: "129 and ".

4.6.2.4: Delete in its entirety and insert the following:

"4.6.2.4 Hazardous solvent content. Hazardous solvent content shall be determined in accordance with Methods 7356 and 7360 of FED-STD-141. Solvent fractions shall be identified in

MIL-P-15931F  
AMENDMENT 1

accordance with ASTM E 1252. Test results shall be reported as % by weight of the total enamel. The test results for each solvent shall be in accordance with the requirement of 3.3.1 and table V."

PAGE 13

4.6.2.12.1: Line four: delete " 2..... laboratory storage." Insert: "1 year of storage between 50°F (10°C) to 100°F (38°C)."

5.1.1.1: Delete in its entirety.

PAGE 15

5.1.1.2: Renumber as "5.1.1.1". Delete from line one: "II" and insert "I, class 2" also delete "IV" and insert "II, class 2".

5.1.1.3: Renumber as "5.1.1.2".

5.1.1.4. Renumber as "5.1.1.3". Line seven: delete " 35°F to 100°F", insert "50°F (10°C) to 100°F (38°C)".

6.1: Delete from line three: "...s 121 and are" and insert "is". Delete from line four: "...s 129 and are" and insert "is". In line eight, delete the last two sentences "The basic formulations.....phosphate."

PAGE 16

6.5: Line ten: Delete "51222, Department of the Navy, Washington, DC 20362-5101" and substitute "03R42, 2531 Jefferson Davis Highway, Arlington, VA 22242-5160".

PAGE 18

Figure 1: Delete in entirety.

PAGE 19

Figure 2: Delete in entirety.

PAGE 20

Figure 3: Delete in entirety.

**MIL-P-15931F**  
**AMENDMENT 1**

**Custodians:**

Army - ME

**Review activity:**

Army - MR

Navy - MC, OS, CG

**Preparing activity:**

Navy - SH

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