

NOT MEASUREMENT SENSITIVE

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 SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

DRY CLEANING AND DEGREASING SOLVENT, PD680

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description (CID) establishes the government acquisition requirements for hydrocarbon solvents, some of which are used in the dry cleaning and coatings industries, and most of which are used in the military for degreasing and cleaning painted or unpainted metal parts.
2. **CLASSIFICATION.** The dry cleaning solvent shall be classified and identified by types and sizes listed below. The selected type (see 7.6(b)) and size (see 7.6(c)) of product to be supplied shall be specified in the acquisition order.

2.1 Type.

- Type I - Regular (Stoddard solvent)
- Type II - High flash point
- Type III - Low odor with very high flash point (200 °F or more)

2.2 Size. See table I.

TABLE I. Product size.

| Size code | Size/unit of issue |
|-----------|--------------------|
| A | Bulk |
| B | 4 ounce |
| C | 1 pint can |
| D | 1 quart |
| E | 1 gallon |
| F | 5 gallon can |
| G | 55 gallon drum |

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Defense Supply Center Richmond (DSCR), ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A

FSC 6850

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

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3. SALIENT CHARACTERISTICS

3.1 Properties. The solvent shall have the properties listed in table II.TABLE II. Dry cleaning and degreasing solvent properties.

| Characteristics | Test method | Type I | Type II | Type III |
|---|-------------------------------|------------------------------------|------------------------------------|----------------------------------|
| Flash point, °C, min. | ASTM D 56 | 38.0 (100 °F) | 60.0 (140 °F) | 93.3 (200 °F) |
| Distillation, °C: Initial boiling pt., min. 50% recovered Dry point, max. | ASTM D 86 | 149 Report 208 | 177 Report 211 | 220 Report 295 |
| Aniline point, °C | ASTM D 611 | 57 to 74 | 57 to 74 | 73 to 89 |
| Kauri-butanol value | ASTM D 1133 | 29 to 45 | 29 to 45 | 27 to 45 |
| Allowable constituents, (% by volume) ¹ : (a) Solvent with olefinic or cyclo-olefinic unsaturation, max. (b) Aromatic compounds with eight or more carbon atoms, except ethylbenzene, max. (c) Total of ethylbenzene, toluene and branched chain ketones, max. (d) Total of (a) + (b) + (c), max. | FED-STD-141, method 7356.1 | 5 8 20 20 | 5 8 20 20 | 0.8 0.8 1 1 |
| Total chlorine content (ppm), max. ² | | 100 | 100 | 100 |
| Total phenol content (ppm), max. | EPA 420.1 | 0.5 | 0.5 | 0.5 |
| Apparent specific gravity, 60/60 °F | ASTM D 1298 | 0.754 to 0.820 | 0.754 to 0.820 | 0.754 to 0.820 |
| Non-volatile residue (mg/100 ml), max. | ASTM F 331 | 10 | 10 | 10 |
| Color, min. | ASTM D 156 | 25 | 25 | 30 |
| Odor ³ | ASTM D 1296 | Characteristic and non-residual | Characteristic and non-residual | Low and non-residual |
| Corrosion, copper, max. | ASTM D 130 | 2a | 2a | 2a |
| Acidity | ASTM D 847 | Neutral | Neutral | Neutral |
| Doctor test | ASTM D 235 | Negative | Negative | Negative |
| Vapor pressure, torr at 20 °C, max. | ASTM D 2879 | -- | -- | 0.40 |
| Viscosity, cSt at 25 °C, max. | ASTM D 445 | -- | -- | 5.0 |

¹ Type I and II maximum limits are as defined in Rule 102, South Coast Air Quality Management District regulations² The total chlorine content of the solvent shall be determined by a gas chromatographic method, microcoulometric method, or by the use of a portable test kit for the quantitative analysis of chlorine.³ Samples of A-A-59601 having satisfactory odor characteristics shall be used as reference standards.3.2 Appearance. The solvent shall be clear and free from suspended matter and undissolved water when observed between 15.6 and 25.6 °C.3.3 Materials. The hydrocarbon solvent shall be a virgin grade or recycled solvent derived from petroleum distillates, fractions from reclaiming and re-refining processes, or a mixture of these fractions. The resultant solvent must be produced in such a manner as is necessary to meet the specified requirements.

3.4 Toxicity and carcinogenicity. The solvent shall have no adverse effect on human health when used as intended. The solvent shall contain no chemicals listed as carcinogens. Any carcinogenic components in the solvent in a concentration of 0.1 percent or greater by weight or by volume will be regarded as the presence of a carcinogen in the solvent.

4. REGULATORY REQUIREMENTS

4.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4.2 Material safety data sheet (MSDS). An MSDS shall be prepared and furnished in accordance with Title 29 Code of Federal Regulations (CFR), part 1910.1200, "Hazardous Communication: Final Rule", and submitted as directed in the contract or order at time of acquisition award.

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance.

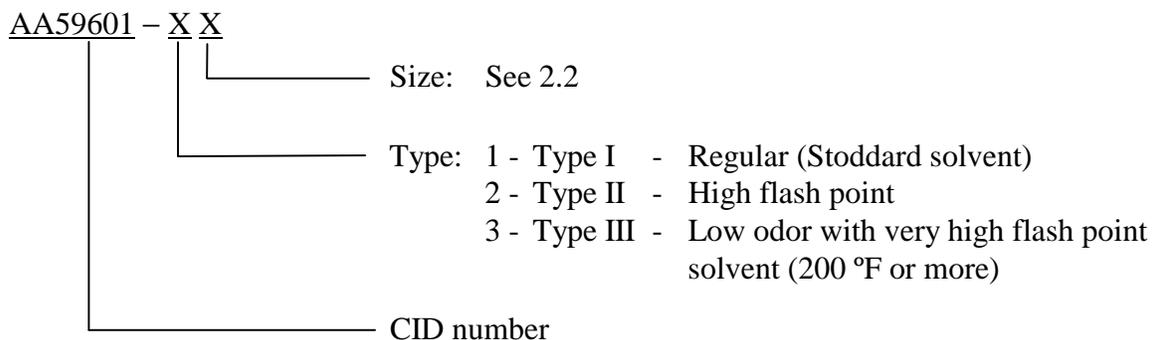
5.2 Market acceptability. The product offered must have been previously sold either to the government or on the commercial market.

6. PACKAGING

6.1 Preservation, packing, and marking. For acquisition purposes, the solvents shall be preserved, packed, and marked as specified in the acquisition order (see 7.6(d)).

7. NOTES

7.1 Part or identification number (PIN). The following part or identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.



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7.2 Sources of documents.

7.2.1 Government documents. Copies of CFR, FAR, and federal standards may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Mail Stop: SSOP, Washington, DC 20402-9328. Electronic copies of CFR documents may be obtained from <http://www.access.gpo.gov>. Electronic copies of federal standards may be obtained from <http://astimage.daps.dla.mil/quicksearch/>.

7.2.2 ASTM standards. Copies of ASTM standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.2.3 EPA methods. EPA methods are available on the internet at <http://www.epa.gov>.

7.3 Intended use.

7.3.1 Type I. Type I (Stoddard solvent) is intended for use as dry cleaning solvent. When used indoors, ventilation shall be sufficient to prevent the accumulation of vapors above required exposure limits.

7.3.2 Type II. Type II (high flash point solvent) is intended where a solvent with a higher flash point is desired. It is recommended over type I for safety and regulatory reasons. When type II solvent is used indoors, ventilation shall be sufficient to prevent the accumulation of vapors above required exposure limits.

7.3.3 Type III. Type III (low odor with very high flash point solvent) is intended for use where confined atmospheric conditions require a cleaner that conforms to the Federal Government's directives for reducing hazardous materials.

7.4 Sources of supply. The manufacturers and/or suppliers listed below are known to supply products that meet the salient characteristics requirements of this document. Competition is not limited to the listed firms.

Home Oil Company
3511 N. Ohio Street
Wichita, KS 67201
Phone: (316) 838-4663

Chemical Specialists and Development
(dba CSD, Incorporated)
2210 Hackberry Lane
Conroe, TX 77306
Phone: (409) 756-1065

7.5 National stock number (NSN). The list of assigned NSNs in table III correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

TABLE III. Dry cleaning and degreasing solvent NSNs.

| Assigned NSN | Type | Size | Military Symbol /NATO Code |
|------------------|------|----------------|----------------------------|
| 6850-00-264-9039 | I | Bulk | SD-1/S-752 |
| 6850-00-281-3061 | I | 4 ounce | SD-1/S-752 |
| 6850-00-664-5685 | I | 1 quart | SD-1/S-752 |
| 6850-00-281-1985 | I | 1 gallon | SD-1/S-752 |
| 6850-00-264-9038 | I | 5 gallon can | SD-1/S-752 |
| 6850-00-285-8012 | I | 55 gallon drum | SD-1/S-752 |
| 6850-00-637-6135 | II | Bulk | SD-2/S-753 |
| 6850-00-110-4498 | II | 1 pint can | SD-2/S-753 |
| 6850-00-274-5421 | II | 5 gallon can | SD-2/S-753 |
| 6850-00-285-8011 | II | 55 gallon drum | SD-2/S-753 |
| 6850-01-331-3349 | III | 5 gallon can | SD-3/none |
| 6850-01-331-3350 | III | 55 gallon drum | SD-3/none |

7.6 Ordering data. Acquisition documents must specify the following information:

- a. CID document number, revision, and CID PIN
- b. Product type (see 2.1)
- c. Product size (see 2.2)
- d. Packaging requirements (see 6.1)

Custodian:
Air Force - 68

Preparing activity:
DLA - GS

(Project 6850-1451)