

METRIC

A-A-59281A
8 August 2007
 SUPERSEDING
 A-A-59281
 8 March 1999

COMMERCIAL ITEM DESCRIPTION

CLEANING COMPOUND, SOLVENT MIXTURES

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

1. **SCOPE.** This commercial item description (CID) covers two blends of mixed cleaning solvent for use in final cleaning of chemically treated aluminum alloy surfaces and solvent-resistant coatings prior to application of chemical treatments or integral fuel tank sealants.

2. **CLASSIFICATION.** The cleaning solvent mixtures shall be of the following types as specified (see 7.3):

Type I - Normal solvent blend

Type II - Non-photochemically reactive solvent blend

3. SALIENT CHARACTERISTICS

3.1 Solvent blend composition. The composition of the cleaning compound solvent blends for each type shall be in accordance with table I.

TABLE I. Chemical composition.

Component	Specification	Percent by volume	
		Type I	Type II
Aromatic naphtha	TT-N-97 type I, grade B	50.0 ± 2.0	None
Ethyl acetate	TT-E-751	20.0 ± 1.0	35.5 ± 1.0
Methyl ethyl ketone	ASTM D 740	20.0 ± 1.0	36.0 ± 1.0
Isopropanol	ASTM D 770	10.0 ± 1.0	10.0 ± 1.0
Toluene	A-A-59107	None	18.5 ± 1.5

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: STDZNMGT@dla.mil or Defense Supply Center Richmond (DSCR), ATTN: DSCR-VEB, 8000 Jefferson Davis Highway, Richmond, VA 23297-5616.

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3.2 Chemical formulation requirements.

3.2.1 Type I. Aromatic content shall not exceed 50.0 ± 2.0 percent when tested using an applicable gas chromatography or gas chromatography/mass spectrometry procedure. Alternative procedure for verification of requirement is ASTM D 1319, "Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption".

3.2.2 Type II. Solvent mixture shall be a non-photochemically reactive solvent blend. A non-photochemically reactive solvent is any solvent with an aggregate of less than 20 percent of its total volume composed of the following percentage composition limitations, referred to as the total volume of solvent:

- a. A combination of hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones having an olefinic or cycloolefinic type of unsaturation: less than 5 percent.
- b. A combination of aromatic compounds with 8 or more carbon atoms to the molecule except ethyl benzene: less than 8 percent.
- c. A combination of ethyl benzene, ketones having branched structures, trichloroethylene or toluene: less than 20 percent.
- d. Total (a) + (b) + (c): less than 20 percent.

3.3 Nonvolatile residue (both types). Nonvolatile residue shall not exceed 0.0010 percent by weight when tested in accordance with method A of ASTM D 2109, "Standard Test Methods for Nonvolatile Matter in Halogenated Organic Solvents and Their Admixtures".

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 Marking, packaging, and labeling. Material shall be labeled, packed, and marked in accordance with 49 Code of Federal Regulations (CFR) 100 - 185 of Chapter 1, "Pipeline and Hazardous Materials Safety Administration, Department of Transportation".

4.3 Material safety data sheet (MSDS). An MSDS shall be prepared and furnished in accordance with 29 CFR 1910.1200, "Hazard Communication".

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, 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. Preservation, packing, and marking shall be as specified in the acquisition order (see 7.3).

6.2 Special markings.

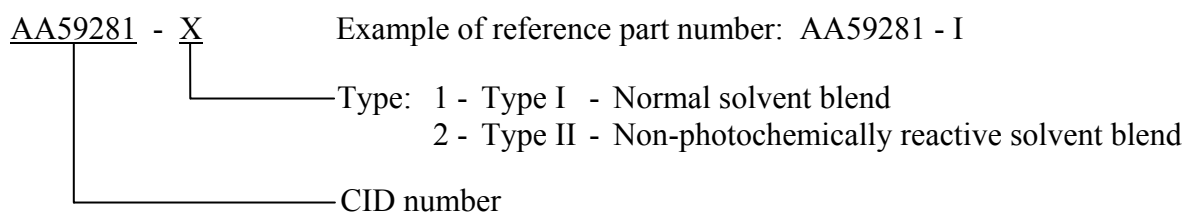
6.2.1 Type II product. On type II product only, all containers shall be labeled or marked, "Non-photochemically Reactive".

6.2.2 Container markings. The following information shall be marked on each container:

Storage Life is Eighteen Months When Stored in Original Unopened Containers Below 36.7 °C. Material is Hygroscopic and Should be Stored in Dry, Covered, Storage Areas.

7. NOTES

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



7.2 Sources of documents.

7.2.1 CFR and FAR. Copies of CFR and FAR documents may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Electronic copies of CFR documents may be obtained from <http://www.access.gpo.gov/>. Electronic copies of FAR documents may be obtained from <http://www.arnet.gov/far/>.

7.2.2 Military specifications and standards. Copies of military specifications and standards may be obtained from Standardization Documents Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Electronic copies of military specifications and standards may be obtained from <http://assist.daps.dla.mil>.

7.2.3 ASTM standards. Copies of ASTM standards may be obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959. Electronic copies of ASTM standards may be obtained from <http://www.astm.org/>.

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7.3 Ordering data. The acquisition order should specify the following:

- a. Title, CID document number, revision, and CID PIN.
- b. Type of solvent required (see 2).
- c. Packaging requirements (see 6).
- d. Special markings, if required (see 6.2).

7.4 Subject term (key word) listing.

aluminum
alloy
aromatic
coatings
ethyl acetate
fuel
methyl ethyl ketone
naphtha
non-photochemically reactive
sealants
tank

MILITARY INTEREST:

Custodian:
Air Force - 68

CIVIL AGENCY
COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:
DLA - GS3

(Project 6850-2006-003)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST database at <http://assist.daps.dla.mil>.