

FED. SUP CLASS  
6850

REVIEWER: GL MD MI MR PS  
USER: MO SM

PART NUMBER	PACKAGING
MS36419-1	1 gal can
MS36419-2	5 gal pail
MS36419-3	55 gal drum

**SAFETY PRECAUTIONS:**

**WARNING: HARMFUL OR FATAL IF SWALLOWED.**

Avoid contact with eyes; in case of eye contact, flush thoroughly with plentiful amounts of water for at least 15 minutes. If eye contact should occur, or if the compound is accidentally swallowed, call a physician immediately.

Avoid skin contact; in case of skin contact, the compound should be washed off thoroughly with running water; a good lanolin base cream applied to the skin after exposure to the compound is helpful. The use of gloves and protective equipment is recommended.

Avoid prolonged breathing of vapor. Use with adequate ventilation.

**INTENDED USE:**

For soak tank use in softening and facilitating effective removal of carbon, gum, oil and other surface contaminants (except rust and corrosion) from items such as pistons, carburetors, fuel pumps and engine assemblies. Compound may be used cold; for best results, soak heavily soiled parts at 130 degrees Fahrenheit.

**MATERIAL:**

Single phase liquid. Ready to use.

**NOTES:**

1. Reference documents shall be of the issue in effect on date of invitations for bid.
2. Safety Precaution given is based on compounds of the Comparison Formula.

This standard is approved by the Munitions Command Department of the Army and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 12 March 1965  
REVISED

P.A.	MU	TITLE	MILITARY STANDARD
Other Cust		CARBON REMOVING COMPOUND single phase	MS36419(MU)
Procurement Specification P-C-111	SUPERSEDES:		SHEET 1 OF 2

REVIEWER: GL MD MI MR PS

USER: MO SM

FED. SUP CLASS  
6850

**REQUIREMENTS:** Qualification required. Not required to conform to definite chemical composition, however the compound shall be equal or superior in carbon removal effectiveness to the comparison formula. Minimum flash point, 210 degrees Fahrenheit, maximum pour point, 10 Degrees Fahrenheit.

**COMPARISON FORMULA**

(For information. Does not necessarily indicate composition, either compound or quantity, of the qualified product)

Component	Percent by volume
Diethylene glycol monomethyl ether, technical-----	2.0
Oleic acid, technical-----	2.0
Ethylene glycol monobutyl ether, conforming to TP-E-776-----	11.6
Detergent, nonionic, conforming to MIL-D-16791B-----	1.8
Diethylene glycol diethyl ether (sp. gr. 0.906-0.911 at 20/20°C.; boiling range 180-190°C. at 760 mm, acidity not over 0.02% as acetic acid)-----	6.7
Monoethanolamine (sp. gr. 1.017 to 1.027 at 20/20°C.; boiling range at 760 mm 160-176°C.)-----	20.3
Sodium silicate solution 0.25 percent by volume of 40° Baume solution in distilled water-----	55.6

**DIRECTIONS FOR USE:**

1. Fill cleaning bath to a reference mark with fresh compound.
2. Before soaking item in compound, remove all loose grease, dirt and oil with a degreasing solvent (kerosene, Stoddard solvent, etc.)
3. Place objects to be cleaned in a wire basket or hang them by a wire so as to be off the bottom and completely immersed.
4. Soak for 2 to 16 hours (see 6 below). Raise items slowly, allowing drainage. Rinse with water, kerosene or solvent. To effectively remove carbon, brush with a stiff bristle brush under running hot water.
5. After use, add fresh compound lost by drag-out. Before reuse, add water to replace evaporation loss. Excess water reduces efficiency of compound.
6. The compound is formulated to clean soiled pistons in 16 hours at room temperature or in 4 hours at 130 degrees Fahrenheit.

This standard approved by the Munitions Command Department of Defense and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 12 March 1965 REVISED

P.A.	MU	TITLE	MILITARY STANDARD
Other Cust		CARBON REMOVING COMPOUND single phase	<b>MS36419(MU)</b>
Procurement Specification P-C-111		SUPERSEDES:	SHEET 2 OF 2