

REVIEWER: GL MD MI MR PS  
 USER: MO SM

FED. SUP CLASS  
 6850

PART NUMBER	PACKAGING
MS36427-1	120 lb drum
MS36427-2	400 lb drum

**SAFETY PRECAUTIONS:**  
 DANGER! HARMFUL OR FATAL IF SWALLOWED. IF SWALLOWED DO NOT INDUCE VOMITING.  
 DANGER! CAUSES SEVERE BURNS TO SKIN AND EYES

If accidentally swallowed, call a physician immediately. Avoid contact with skin, eyes and clothing. Avoid prolonged breathing of vapor. Use with adequate ventilation.

**INTENDED USE:** For use either as a float type or digestant type product.

**NOTE:**  
 1. Referenced documents shall be of the issue in effect on date of invitations for bid.

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	CLEANING COMPOUND, WATER WASH, PAINT SPRAY BOOTH	<b>MS36427(MU)</b>
Procurement Specification MIL-C-51052	SUPERSEDES:	SHEET 1 OF 2

FED. SUP CLASS  
6850

REVIEWER: GL MD MI MR PS  
USER: MO SM

**REQUIREMENTS:** The compound shall be a mixture of anhydrous alkaline salt detergents or alkalis including sodium metasilicate or sodium orthosilicate, a water insoluble powder possessing colloidal properties, and kerosene. The compound may also contain additional defoaming agent, solvent, and soluble inert inorganic salt. The product shall be non-dusting, and shall remain uniform in composition and show no evidence of segregation or caking during handling or storage.

**QUANTITATIVE REQUIREMENTS**

Characteristics	Requirements
pH, 1/2% solution, at 25°C-----	12.4 - 12.7
Surface tension, 1/2% solution, 25°C, dynes/cm-----	53 minimum
Foaming, 1/2% solution, 25°C: initial foam height-----	no foam allowed
Inorganic water insolubles, % by wt of compound-----	5.0 - 15.0
Methyl orange alkalinity, as % Na <sub>2</sub> O-----	40.0 minimum
Phenolphthalein alkalinity, as % Na <sub>2</sub> O-----	35.0 - 40.0
Silicates, as % SiO <sub>2</sub> -----	5.0 minimum
Granulation-----	Passing 8 mesh - 100% min/Retained on 100 mesh - 90% min
Suspendibility-----	Solids remain partially dispersed after 1 hour settling
Petroleum ether extract, % by wt-----	5.0 - 10.0
Dusting-----	Dust shall settle in 5 seconds
Penetration, average-----	30.0 minimum

- DIRECTIONS FOR USE:**
1. Float type concentration is approximately 0.2 ounces per gallon.
  2. Digestant type concentration is approximately 0.5 ounces per gallon.
  3. Best use concentration depends on type of paint over spray, ranging from 0.13 ounces per gallon for floatation to 1 ounce per gallon for digestant type.
  4. To prepare solution, the required quantity of compound should be dissolved in hot water in a small container outside the spray booth system, and the solution (with insoluble matter) transferred to the water curtain tank.
  5. Solution strength should be maintained by small daily additions based on alkalinity titrations.
  6. Foaming caused by some paints may be controlled by additions of one or two gallons of kerosene per 200 gallons of solution.

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	CLEANING COMPOUND, WATER WASH, PAINT SPRAY BOOTH	MS36427(MU)
Procurement Specification MIL-C-51052	SUPERSEDES:	SHEET 2 OF 2