

# Environmental Standard Operating Procedure

Document Owner: Environmental Division

File Name: DEG-ESOP

Effective Date: 1 October 2007

Revised: 31 January 2011

## Title: Degreasing (Aerosol, Aqueous, Solvent)

### 1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to provide environmental guidelines for the use of aerosol containers and parts washers containing organic or aqueous degreasing solvents.

### 2.0 APPLICATION

This guidance applies to those individuals who work with aerosol containers that dispense products that are used to degrease parts and to those individuals working with organic and aqueous solvent parts washers aboard Marine Corps Logistics Base (MCLB) Barstow.

### 3.0 PROCEDURE

#### 3.1 Discussion:

Aerosol containers are used to dispense degreasing materials during portable degreasing operations when objects cannot be moved or will not fit into a stationary parts washer. Many degreasing solvents and aerosol containers can potentially generate hazardous waste and air contaminants. Improper use and disposal of these materials and/or containers can potentially have adverse impacts on the environment

Aerosol containers that dispense solvents for the purpose of degreasing must be managed as hazardous material at the unit level. MCLB Barstow units are required to purchase aerosol-degreasing solvents through the Hazardous Material Management System (HMMS). Units aboard MCLB Barstow must only use solvents listed on unit's Hazardous Material Authorized Use List (AUL).

The unit shall consult with the Environmental Division prior to procurement of any aerosol container that dispenses degreasing solvents that are not listed on the Unit's Hazardous Material Authorized Use List (AUL).

The use of self-contained parts washers is an effective means of recycling solvents and preventing contamination of wastewater. However, solvent selection can have environmental consequences. Depending on the solvent selected, organic solvent parts washers may generate hazardous waste and air pollution, while water-based solvents may be corrosive to mechanical parts and humans.

Waste organic-based and water-based solvents must be managed as hazardous waste at the unit level. MCLB Barstow units are required to purchase solvents through the Hazardous Material Management System (HMMS). MCLB Barstow units must use solvents listed on unit's Hazardous Material Authorized Use List.

A unit may choose to enter into a service agreement with a vendor to supply parts washer service for the machine, solvent and regularly scheduled service. The unit/contractor must provide the Environmental Division with the type of machine, solvent used, maintenance schedule, and where solvent will be recycled. The contractor shall manifest all waste solvent through the Environmental Division.

The unit may also purchase their own equipment; however, the unit shall consult with the Environmental Division prior to procurement of any solvent machines.

### **3.2 Operational Controls:**

#### **AEROSOL CONTAINERS**

The following procedures apply to any and all aerosol containers that dispense degreasing solvents:

- a. MSDSs for degreasing solvents in aerosol containers must be available and current.
- b. Use only MCLB Barstow approved aerosol containers that contain degreasing materials that are listed on the installation Hazardous Material Authorization Use List (AUL).
- c. Remove all caps and tips from aerosol containers. Properly dispose of them before placing aerosol container in a Hazardous/Universal (H/U) waste container.
- d. Remove gross contamination from the outside of the aerosol container before placing in the H/U waste container.
- e. Ensure all waste aerosol containers and or residue are collected and taken to the unit process generation point for disposal.
- f. All H/U waste containers must be marked on the outside with the name of hazardous material being disposed of.
- g. Ensure waste aerosol containers and/or any residues are stored in properly closed and properly labeled containers.
- h. Ensure all aerosol containers that contain degreasing solvents are kept in an appropriate storage location (e.g., flammable material locker) that is operated and maintained in strict accordance with the Unit and manufacturer's regulations.
- i. Ensure "No Smoking" signs are posted properly.

- j. Keep a spill kit nearby.
- k. Keep fire extinguisher nearby.
- l. Keep an eye wash station nearby.

m. If there are any specific situations or other concerns not addressed by this procedure, contact the MCLB Barstow Environmental Division.

#### AQUEOUS/SOLVENT PARTS WASHERS

The following procedures apply to all Parts Washers:

- a. Use only MCLB Barstow approved solvents.
- b. Ensure solvent being utilized is on unit's Hazardous Material Authorization Use List.
- c. MSDSs for solvents must be available.
- d. Parts washers must be marked on the outside with the name of the solvent being utilized.
- e. Drain all parts before placing them in the parts washer.
- f. Remove gross contamination before placing in the parts washer.
- g. Ensure the parts washer is free of visible leaks.
- h. Parts washer cover must be operating properly and closed when not in use.
- i. Ensure waste fluids and residue are collected and taken to the unit's process generation point for disposal.
- j. Ensure waste solvent or its residue is stored in closed and properly labeled containers.
- k. Ensure equipment is operated and maintained in strict accordance with the manufacturer's recommendations.
- l. Keep a spill kit nearby.
- m. Keep fire extinguisher nearby.
- n. When parts are washed, allow excess solvent to drain back into the parts washer.
- o. If there are any specific situations or other concerns not addressed by this procedure, contact the MCLB Barstow Environmental Division.

### **3.3 Documentation and Record Keeping:**

The following records must be maintained:

- a. MSDSs (Material Data Safety Sheets) for all containers that contain degreasing solvents.
- b. Unit's Authorized Use List for Hazardous Material (AUL).
- c. Inspection and Training records.

### **3.4 Training:**

All affected personnel must be trained in this Standard Operating Procedure and the following:

- a. Hazard Communication training.
- b. General Environmental Awareness training.

### **3.5 Emergency Preparedness and Response Procedures:**

Refer to MCLB Barstow's Integrated Contingency Plan (ICP).

### **3.6 Inspection and Corrective Action:**

The unit Environmental Compliance Coordinator (ECC) shall designate personnel to perform inspections. The ECC shall ensure deficiencies noted during the inspections are corrected immediately. Actions taken to correct each deficiency shall be recorded on the inspection sheet. Designated personnel shall conduct inspections.

## **4.0 REFERENCES**

- 40 CFR 261, 403 (Code of Federal Regulations)
- 40 CFR 51.100
- 29 CFR 1910
- Clean Air Act
- Mojave Desert Air Quality Management District (MDAQMD) Rules
- Integrated Contingency Plan (ICP) for Marine Corps Logistics Base Barstow