

Environmental Standard Operating Procedure (ESOP)	
Organic Solvent Degreasing Operations (DGR)	
Environmental Affairs (EA): Air Resources (760) 830-8480	Revised: 1 October 2024

Subject: ORGANIC SOLVENT DEGREASING OPERATIONS

Reference: Mojave Desert Air Quality Management District (MDAQMD) Rule 1104 - Organic Solvent Degreasing Operations

1. Purpose. This document provides environmental protection guidelines for organic solvent degreasing operations.
2. Application. This guidance applies to those individuals who use organic solvents to degrease parts aboard the Marine Air Ground Task Force Training Command (MAGTFTC), Marine Corps Air Ground Combat Center (MCAGCC) Twentynine Palms. A solvent is a liquid or vapor that contains volatile organic compounds and is often used as a diluent, thinner, or cleaning agent, among others. If a degreasing operation does not use an organic solvent, this ESOP does not apply.
3. Procedures. Degreasing must be managed in accordance with the reference. Many degreasing solvents can potentially generate hazardous waste and air contaminants. Improper use and disposal of these materials and containers can potentially have adverse impacts on the environment.

Degreasers and solvents must be managed as hazardous material at the unit level. Units aboard the installation must only use solvents listed on the unit's Hazardous Material Authorized Use List (AUL). The unit will consult with the EA office before procurement of any degreasing solvents that are not listed on the Unit's Hazardous Material AUL.

4. Material Limitations. MDAQMD Rule 1104 limits the volatile organic compound (VOC) content of materials used for degreasing operations, specifically cleaning and surface preparation (such as before application of a coating or other material). Solvent or cleaning materials should only be used with the following:
 - a. Maximum VOC content of 25 grams per liter (g/L), or
 - b. Vapor pressure of 8 millimeters of mercury (mmHg) or less
 - c. VOC limits *do not apply* to the following:
 - i. Surface preparation of electrical and electronic components, precision optics, or numismatic dies; or
 - ii. Stripping of cured inks, coatings, and adhesives or cleaning of resin, coating, ink, and adhesive mixing, molding, and application equipment; or

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- iii. Aerosol cans, as long as the cumulative amount used is less than 160 ounces per day (usage records must still be maintained to demonstrate this exemption)

5. Operational Controls. The following controls apply:

- a. Use only installation approved degreasing materials, which are listed on the unit's Hazardous Material AUL.
- b. Keep solvent tanks closed when not in use.
- c. Store all solvents including waste solvent, residues, and used applicators and rags in a closed container that has been properly labeled. The label should either indicate the name of the solvent and material or the waste stream.
- d. Confirm that all waste solvent, residues, and used applicators are collected and taken to the unit's satellite accumulation area for disposal.
- e. Contact the Safety Office via phone at (760)830-6720 for additional information on hazardous material storage.
- f. Confirm that all solvent tanks have a permanent label summarizing applicable operating requirements, which can be found in this ESOP and section (C) (4) of MDAQMD Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where operators can access them.

6. Recordkeeping Requirements. The following solvent usage records must be maintained onsite (at the installation) for 5 years:

- a. Product name(s) used in the degreaser
- b. Mix ratio of mixtures containing solvents as used
- c. VOC content of solvent(s); and
- d. Total volume of solvent(s) used monthly

Records must be readily available during an inspection and can be maintained either electronically or as physical copies. If a unit has multiple sites subject to this requirement, records can be consolidated and stored at one location.

7. Training Requirements. All affected personnel must be trained in this document and in General Environmental Awareness Training.

8. Emergency Preparedness and Response Procedures. Refer to the spill response procedures listed in the Abatement ESOP.

9. Inspection and Corrective Action. The Environmental Compliance Coordinator (ECC) will confirm unit adherence to this ESOP. The ECC will confirm that unit personnel are trained in this ESOP and maintain appropriate documentation in accordance with this ESOP.