

PROHIBITED EMISSIONS

040.085 ORGANIC SOLVENTS

- A. A person shall not use, in any dry cleaning operation, organic solvents containing 4% or more by volume of any volatile organic compound unless the emissions of the discharged organics are reduced by 90% or more.
- B. After January 1, 1980, any person who employs solvent metal cleaning (degreasing) shall utilize a device for such cleaning which includes the following equipment:
1. A container for the solvent and articles being cleaned;
 2. An apparatus or cover that prevents the solvent from evaporating when not processing work in the degreaser;
 3. A facility for draining cleaned parts such that the drained solvent is returned to the container;
 4. A permanent, conspicuous label, which lists each of the operating requirements contained **Subsection C**; and
 5. For cold solvent cleaning, if the vapor pressure of the solvent is greater than 33 millimeters of mercury, or 0.6 pounds per square inch at 38 degrees C or, if the solvent is heated above 50 degrees C, one of the following control devices:
 - a. A freeboard such that the freeboard ratio is equal to or greater than 0.75;
 - b. A water cover if the solvent is insoluble in and heavier than water; or
 - c. Any other system of equivalent control such as a refrigerated chiller or carbon absorber.
 6. The following equipment shall be used in open-top vapor degreasing or conveyorized degreasing:
 - a. All of the following safety switches:
 - (1) A condenser flow switch and thermostat;
 - (2) A spray safety switch; and
 - (3) A vapor level control device.
 - b. Any or all of the following major control devices so that overall emissions are reduced by 85% by weight:
 - (1) A freeboard such that the freeboard ratio is equal to or greater

than 0.75;

- (2) A refrigerated chiller;
- (3) A carbon absorption system; or
- (4) A control system which has a control efficiency equivalent to any of the above.

c. For conveyORIZED degreasers, the following additional control devices:

- (1) A drying tunnel or other device such as a rotating basket to prevent cleaned parts from carrying out solvent liquid or vapor; and
- (2) Minimized openings, entrances and exits which silhouette work loads so that the average clearance between parts and the edge of the degreaser opening is either less than ten (10) centimeters or less than 10% of the width of the opening.

C. After January 1, 1980, any person who engages in solvent metal cleaning (degreasing) must conform to the following operating requirements:

1. The degreasing equipment and emission control equipment must be operated and maintained in a proper working order.
2. A person shall not allow any solvent to leak from any portion of the degreasing equipment.
3. A person shall not store or dispose of any solvent in such a manner as to cause or allow its evaporations into the atmosphere.
4. A person shall not remove or open any device designed to cover the solvent except to process work in or perform maintenance on the degreaser.
5. A person shall drain cleaned parts for at least fifteen (15) seconds after cleaning or until dripping ceases (cold solvent cleaning only).
6. If a solvent flow is used, a person shall use only a continuous, fluid stream (not a fine, atomized, or shower type spray) and the pressure shall be such that it does not cause liquid solvent to splash outside of the solvent container.
7. Solvent agitation, where necessary, shall be attained through pump recirculation or by means of a mixer. (Air agitation of the solvent bath shall not be used).
8. To minimize solvent carry-out in open-top vapor degreasers, a person shall:
 - a. Place parts on racks to allow for full drainage;
 - b. Move parts in and out of the degreaser at less than 3.3 meters per minute;

- c. Degrease the work load in the vapor zone at least thirty (30) seconds or until condensation ceases; and
 - d. Allow parts to dry within the degreaser until visually dry
- 9. To minimize solvent carry-out in conveyORIZED degreasers, a person shall;
 - a. Place parts on racks to allow for full drainage; and
 - b. Maintain vertical conveyor speed at less than 3.3 meters per minute.