Open Top Vapor Degreaser
Organic Solvent Degreasing Operations (326 IAC 8-3)

- **Control device or control practice if the solvent is heated to 48.9 °C (120 °F):** Freeboard ratio of 0.75 or greater; it is the distance from the solvent/air interface to the top of the degreaser divided by the smallest interior dimension (length, width or diameter)
- Refrigeration
- Carbon adsorption
- Device that opens or closes cover when part is immediately entering or being removed or
- An equivalent control which must be tested

**Operating practices:**
- Open and close the cover carefully to avoid displacing the vapor zone
- Keep cover closed except when moving parts
- Post operating requirements where they can be readily seen by the user
- Repair leaks immediately or shut down the degreaser
- **Minimize solvent carryout**
  - Rack parts to maximize drainage
  - Moving parts at less than 3.3 meters per minute or 11 feet per minute
  - Keeping parts in vapor zone at least 30 seconds or until condensation ceases
  - Tipping parts as necessary to drain any accumulated solvent
  - Keeping parts above the vapor zone at least 15 seconds or until visually dry
- **Prohibitions**
  - Immersing porous or absorbent materials such as cloth, leather, wood or rope
  - Immersing large parts relative to the size of the opening
    - A part or parts should occupy less than half the size of the opening
    - Removal of the part or parts should not cause the vapor level to drop more than 10 centimeters (4 inches).
  - Spraying above the vapor level

June 19, 2013
Applicable to degreasers constructed after July 1, 1990

- Placing fans near the degreaser opening
- Exceeding a ventilation rate of 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of open area

**Equipment**
- Condenser flow switch and thermostat shutting off sump heat if the condenser becomes too warm
- Spray safety switch shutting off spray pump if vapor level drops more than 10 centimeters (4 inches)
- Cover should be readily operable with one hand; examples are those which slide or roll open

**Waste storage**
- Keep lids on waste solvent containers unless adding or removing material
- Take precautions when transferring waste solvent to another container or by a transporter

**Exemptions**
- Surface area is less than 1 square meter or 10.8 square feet; as an example, 100 centimeters by 100 centimeters or 48 inches by 32 inches
- Degreasers subject to 40 CFR 63, NESHAP (National Emission Standards for Hazardous Air Pollutants
  - Subpart T – Halogenated Solvent Cleaning
  - Subpart GG – Aerospace Manufacturing and Rework Facilities not located in Clark, Floyd, Lake or Porter counties
- Degreasing the following types of electronic components
  - Circuit board and printed wire assemblies
  - Printed circuit boards
  - Soldered joints
  - Ground wires
  - Bus bars
  - Other associated electronic components