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flushing or immersion while maintaining the degreasing solvent below its boiling point. Wipe cleaning is not included in this definition.

"Conveyorized degreasing" means the continuous process of cleaning and removing soils from metal surfaces by operating with either cold or vaporized degreasing solvents.

"Degreasing solvent" means any ["]volatile organic compound["] used for metal cleaning.

"Freeboard height" means, for a cold cleaner, the distance from the liquid solvent in the degreaser tank to the lip of the tank. For an open top vapor degreaser it is the distance from the solvent vapor level in the tank during idling to the lip of the tank. For a vapor conveyorized degreaser, it is the distance from the vapor level to the bottom of the entrance or exit opening whichever is lower. For a cold conveyorized degreaser, it is the distance from the liquid solvent level to the bottom of the entrance or exit opening whichever is lower.

"Freeboard ratio" means the freeboard height divided by the smaller interior dimension (length, width or diameter) of the degreaser.

"Open top vapor degreasing" means the batch process of cleaning and removing soils from metal surfaces by condensing hot degreasing solvent vapor on the colder metal parts.

"Metal cleaning" means the process of cleaning soils from metal surfaces by cold cleaning or open top vapor degreasing or conveyorized degreasing.

"Refrigerated chiller" means a device which is mounted above the water jacket and the primary condenser coils, consisting of secondary coils which carry a refrigerant to provide a chilled air blanket above the solvent vapor to reduce emissions from the degreaser bath. The chilled air blanket temperature, measured at the centroid of the degreaser at the coldest point, shall be no greater than thirty (30) percent of the solvent's boiling point in degrees Fahrenheit.

(1)(2) The provisions of this subsection apply with the following exceptions.

(A) Open top vapor degreasers with an open area smaller than one (1) square meter (10.8 square feet) are exempt from the provisions of parts (ii), (iv) and (v) of subparagraph (1)(4)(C) of this section;

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(B) Conveyorized degreasers with a solvent/air interface smaller than two (2) square meters (21.6 square feet) are exempt from the provisions of subparagraph (1)(5)(C);

(C) Metal cleaning equipment which uses 1,1,1 trichloroethane, methylene-chloride, or trichlorotrifluoroethane.

(1)(3) [Between July 1, 1980 and July 1, 1990 the owner or "operator" of any cold cleaning unit shall meet the requirements of subparagraphs (A) through (F) of this subdivision. After July 1, 1990 the] EXCEPT AS PROVIDED FOR IN SUBDIVISION (1)(6) OF THIS SECTION, THE owner or ["]operator["] of any cold cleaning unit shall meet the requirements of [subparagraphs (A) through (K) of] this subdivision.

(A) Equip the cleaning device with a cover designed so that it can be easily operated with one hand.

(B) Equip the cleaning device with a facility for draining cleaned parts constructed internally so that parts are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(C) Store waste degreasing solvent only in covered containers and not dispose of waste degreasing solvent or transfer it to another party, in a manner such that greater than 20 percent of the waste degreasing solvent (by weight) can evaporate into the atmosphere.

(D) Close the cover whenever parts are not being handled in the cleaner for two (2) minutes or more, or when the device is not in use.

(E) Drain the cleaned parts for at least 15 seconds or until dripping ceases, whichever is longer.

(F) If used, supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray) at a pressure which does not exceed ten (10) pounds per square inch as measured at the pump outlet and perform such spraying within the confines of the cold cleaning unit.

(G) Install one of the following control devices if the solvent vapor pressure is greater than 4.3 kilo pascals (33 millimeters of mercury or 0.6 pounds per square

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inch) measured at 38 degrees celsius (100 degrees Fahrenheit) or if the solvent is heated above 50 degrees Celsius (120 degrees Fahrenheit):

(i) freeboard that gives a freeboard ratio greater than or equal to 0.7; [or]

(ii) water cover (solvent must be [insoluable] INSOLUBLE in and heavier than water); or

(iii) other systems of equivalent control, equal to that of a "refrigerated chiller" or carbon adsorption approved by the [Commissioner] COMMISSIONER by permit or order.

(H) Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between 1 and 2 meters upwind, and at the same elevation as the tank lip.

(I) Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired.

(J) Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements.

(K) Maintain a monthly record of the amount of solvent added to each unit and keep such record for a minimum of two (2) years after such record is made.

(1)(4) [Between July 1, 1980 and July 1, 1990 the owner or "operator" of any open top vapor degreaser shall meet the requirements of subparagraphs (A) through (E) of this subdivision. After July 1, 1990 the] THE owner or ["]operator["] of any open top vapor degreaser shall meet the requirements of [subparagraphs (A) through (P) of] this subdivision.

(A) Equip the vapor degreaser with a cover that can be opened and closed easily without disturbing the vapor zone.

(B) Provide the following safety switches:

(i) A condenser flow switch and device which shuts off the sump heat if the condenser coolant is not circulating or if the vapor level rises above the height of the primary condenser; and

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(ii) A spray safety switch which shuts off the spray pump if the vapor level drops more than 10 centimeters (4 inches) below the lowest condensing coil.

(C) Install one of the following control devices:

(i) Powered cover, if the freeboard ratio is greater than or equal to 0.75, and if the degreaser opening is greater than 1 square meter (10 square feet); [or]

(ii) ["]Refrigerated chiller["]; [or]

(iii) Enclosed design (cover or door opens only when the dry part is actually entering or exiting the degreaser); [or]

(iv) Carbon adsorption system, with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of solvent/vapor area (when cover is open), and exhausting less than 25 parts per million of degreasing solvent averaged each complete adsorption cycle; or

(v) A control system, demonstrated to have control efficiency equivalent to or greater than that required of the carbon adsorption system required in this subparagraph which is approved by the ["Commissioner"] COMMISSIONER by permit or order.

(D) Keep the cover closed at all times except when processing work loads through the degreaser.

(E) Store waste degreasing solvent only in covered containers and not dispose of waste degreasing solvent or transfer it to another party, such that greater than 20 percent of the waste degreasing solvent (by weight) can evaporate into the atmosphere.

(F) Minimize solvent carryout by:

(i) Racking parts to allow complete drainage; [and]

(ii) moving parts in and out of the degreasing unit at less than 3.3 meters per minute (11 feet per minute); [and]

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(iii) holding the parts in the vapor zone at least thirty (30) seconds or until condensation ceases, whichever is longer; [and]

(iv) tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and

(v) allowing parts to dry within the degreasing unit for at least fifteen seconds or until visually dry, whichever is longer.

(G) Do not degrease porous or absorbent materials, such as cloth, leather, wood or rope.

(H) Do not occupy more than half of the degreaser unit's open top area with a workload.

(I) Do not load the degreasing unit to the point where the vapor level would drop more than ten (10) centimeters (4 inches) when the workload is removed from the vapor zone.

(J) Always spray within the vapor level.

(K) Operate the degreasing unit so as to prevent water from being visually detectible in solvent exiting the water separator.

(L) Do not expose the degreasing unit to drafts greater than forty (40) meters per minute (131 feet per minute) as measured between 1 and 2 meters upwind and at the same elevation as the tank lip, nor provide exhaust ventilation exceeding twenty (20) cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreasing unit open area, unless necessary to meet OSHA requirements; [and]

(M) Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired; [and]

(N) Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements[.]; ~~;~~

(O) Maintain a monthly record of the amount of solvent added to each unit and keep such record for a minimum of two (2) years after such record is made[.]; AND

(P) If the open top vapor degreaser is equipped with a lip

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exhaust, the cover required in subparagraph (A) of this subdivision shall be located below the lip exhaust.

(l)(5) [Between July 1, 1980 and July 1, 1990 the owner or "operator" of any conveyorized degreaser shall meet the requirements of subparagraphs (A) through (G) of this subdivision. After July 1, 1990 the] THE owner or [")operator[") of any conveyorized degreaser shall meet the requirements of [subparagraphs (A) through (M) of] this subdivision.

(A) Install one of the following control devices:

(i) [")Refrigerated chiller[")]; [or]

(ii) Carbon adsorption system, with ventilation greater than or equal to fifteen (15) cubic meters per minute per square meter (50 cubic feet per minute per square foot) of solvent/air area (when downtime covers are open), and exhausting less than twenty five (25) parts per million of degreasing solvent by volume averaged over each complete adsorption cycle; or[,]

(iii) A system, demonstrated to have a control efficiency equivalent to or greater than the that required of the carbon adsorption system required in this subparagraph which is approved by the ["Commissioner"] COMMISSIONER by permit or order.

(B) Provide the following safety switches:

(i) A condenser flow switch and device which shuts off the sump heat if the condenser coolant is not circulating or if the vapor level rises above the height of the primary coil; and

(ii) A spray safety switch which shuts off the spray pump or the conveyor if the vapor level drops more than ten (10) centimeters (4 inches) below the lowest condensing coil.

(C) Store waste degreasing solvent only in covered containers and not dispose of waste degreasing solvent or transfer it to another party, such that greater than twenty (20) percent of the waste degreasing solvent (by weight) can evaporate into the atmosphere.

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(D) Rack parts to allow complete drainage.

(E) Maintain conveyor speed at less than eleven (11) feet per minute.

(F) Use either a drying tunnel, rotating basket, or other equivalent method to prevent cleaned parts from carrying out solvent liquid.

(G) Place covers over entrances and exits immediately after conveyors and exhausts are shutdown, leaving them in place until just prior to start-up.

(H) Minimize openings during operation so that entrances and exits will silhouette workloads with an average clearance between the parts and the edge of the degreasing unit opening of less than ten (10) centimeters (4 inches) or less than ten (10) percent of the width of the opening.

(I) Prevent water from being visually detectible in solvent exiting the water separator.

(J) Do not provide exhaust ventilation exceeding twenty (20) cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreasing unit open area, unless necessary to meet OSHA requirements.

(K) Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired.

(L) Provide a permanent, conspicuous label on or posted near each unit summarizing the applicable operating requirements.

(M) Maintain a monthly record of the amount of solvent added to each unit and keep such record for two (2) years after such record is made.

(1)(6) THE COMMISSIONER MAY DEEM A COLD CLEANING UNIT IN COMPLIANCE WITH THE REQUIREMENTS OF SUBPARAGRAPHS (A), (B), AND (D) OF SUBDIVISION (1)(3), NOTWITHSTANDING THAT SUCH UNIT IS UNCOVERED, IF THE OWNER OR OPERATOR SUBMITS WRITTEN DOCUMENTATION TO THE COMMISSIONER'S SATISFACTION DEMONSTRATING SUCH UNIT PROVIDES EQUAL OR BETTER CONTROL OF VOLATILE ORGANIC COMPOUND EMISSIONS THAN A SIMILAR COLD CLEANING UNIT MEETING SUCH REQUIREMENTS. THE COMMISSIONER SHALL MAKE SUCH A DETERMINATION BASED UPON THE FOLLOWING CRITERIA:

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(A) THE COLD CLEANER MUST HAVE A REMOTE SOLVENT RESERVOIR;

(B) THE SOLVENT USED IN THE COLD CLEANER MUST NOT HAVE A VAPOR PRESSURE THAT EXCEEDS 4.3 KPA (33MM HG OR 0.6 PSI) MEASURED AT 38° C (100° F) OR BE HEATED ABOVE 50° C (120° F);

(C) THE SINK-LIKE WORK AREA MUST HAVE AN OPEN DRAIN AREA LESS THAN 100 CM^2; AND

(D) EVIDENCE IS PROVIDED THAT WASTE SOLVENT WILL BE STORED OR PROPERLY DISPOSED OF WITH MINIMAL LOSS DUE TO EVAPORATION.

Statement of Purpose: The purpose of this amendment is to add three volatile organic compounds ((1)acetone, (2)cyclic, branched, or linear completely methylated siloxanes, and (3)parachlorobenzotrifluoride) to the exemption list in table 1(a)-1 of RCSA section 22a-174-1(97) and to allow the commissioner to deem an uncovered cold cleaning unit in compliance with RCSA section 22a-174-20(*l*) under certain circumstances.

CERTIFICATION
R-39 REV. 1/77

Be it known that the foregoing:

☒ Regulations ☐ Emergency Regulations

Are:

☐ Adopted ☒ Amended as hereinabove stated ☐ Repealed

By the aforesaid agency pursuant to:

☒ Section 22a-174 of the General Statutes.

☐ Section _____ of the General Statutes, as amended by Public Act No. _____ of the ___ Public Acts.

☐ Public Act No. _____ of the Public Acts.

After publication in the Connecticut Law Journal on November 21 19 95, of the notice of the proposal to:

☐ Adopt ☒ Amend ☐ Repeal such regulations

(If applicable): ☒ And the holding of a public hearing on 22nd day of December 19 95

WHEREFORE, the foregoing regulations are hereby:

☐ Adopted ☒ Amended as hereinabove stated ☐ Repealed

Effective:

☒ When filed with the Secretary of State.
(OR)
☐ The _____ day of _____ 19 ____.

In Witness Whereof:	DATE 5/24/96	SIGNED *(Head of Board, Agency or Commission)*	OFFICIAL TITLE, DULY AUTHORIZED Commissioner, Env. Prot.
Approved by the Attorney General as to legal sufficiency in accordance with Sec. 4-169, as amended, C.G.S.:		SIGNED	OFFICIAL TITLE, DULY AUTHORIZED Assoc. Atty. General

☑ Approved X 6/3/96

☐ Disapproved

☐ Disapproved in part, *(Indicate Section Numbers disapproved only)*

☐ Rejected without prejudice.

RECEIVED
AUG 23 1996
RECORDS & LEGISLATIVE SERVICES
SECRETARY OF THE STATE

By the Legislative Regulation Review Committee in accordance with Sec. 4-170, as amended, of the General Statutes.	DATE 8/20/96	SIGNED *(Clerk of the Legislative Regulation Review Committee)*

Two certified copies received and filed, and one such copy forwarded to the Commission on Official Legal Publications in accordance with Section 4-172, as amended, of the General Statutes.

DATE	SIGNED *(Secretary of the State.)*	BY

INSTRUCTIONS

1. One copy of all regulations for adoption, amendment or repeal, except emergency regulations, must be presented to the Attorney General for his determination of legal sufficiency. Section 4-169 of the General Statutes

2. Seventeen copies of all regulations for adoption, amendment or repeal, except emergency regulations, must be presented to the standing Legislative Regulation Review Committee for its approval. Section 4-170 of the General Statutes.

3. Each regulation must be in the form intended for publication and must include the appropriate regulation section number and section heading. Section 4-172 of the General Statutes.

4. Indicate by "(NEW)" in heading if new regulation. Amended regulations must contain new language in capital letters and deleted language in brackets. Section 4-170 of the General Statutes.