

Appendix B to rule 3745-270-42 of the Administrative Code

Recommended Technologies to Achieve Deactivation of Characteristics
in rule 3745-270-42 of the Administrative Code

The treatment standard for many characteristic wastes is stated in the table in rule 3745-270-40 of the Administrative Code as “Deactivation and meet UTS.” Ohio EPA has determined that many technologies, when used alone or in combination, can achieve the deactivation portion of the treatment standard. Characteristic wastes that are not managed in a facility regulated by the Clean Water Act (CWA) or in a CWA-equivalent facility, and that also contain “underlying hazardous constituents” (as defined in rule 3745-270-02 of the Administrative Code) shall be treated not only by a "deactivating" technology to remove the characteristic, but also to achieve the universal treatment standards (UTS) for underlying hazardous constituents. This appendix presents a partial list of these technologies, utilizing the five-letter technology codes established in the table in rule 3745-270-42 of the Administrative Code that may be useful in meeting the treatment standard. Use of these specific technologies is not mandatory and does not preclude direct reuse, recovery, or the use of other pretreatment technologies, provided deactivation is achieved and underlying hazardous constituents are treated to achieve the UTS.

EPA hazardous waste number and subcategory		Non-wastewaters	Wastewaters
D001	Ignitable Liquids based on paragraph (A)(1) of rule 3745-51-21 of the Administrative Code- Low total organic carbon (TOC) Nonwastewater Subcategory (containing 1% to <10% TOC)	RORGS INCIN WETOX CHOXD BIODG	NA
D001	Ignitable Liquids based on paragraph (A)(1) of rule 3745-51-21 of the Administrative Code- Ignitable Wastewater Subcategory (containing <1% TOC)	NA	RORGS INCIN WETOX CHOXD BIODG
D001	Compressed Gases based on paragraph (A)(3) of rule 3745-51-21 of the Administrative Code	RCGAS INCIN FSUBS ADGAS fb INCIN ADGAS fb (CHOXD; or CHRED)	NA
D001	Ignitable Reactives based on paragraph (A)(2) of rule 3745-51-21 of the Administrative Code	WTRRX CHOXD CHRED STABL INCIN	NA

EPA hazardous waste number and subcategory		Non-wastewaters	Wastewaters
D001	Ignitable Oxidizers based on paragraph (A)(4) of rule 3745-51-21 of the Administrative Code	CHRED INCIN	CHRED INCIN
D002	Acid Subcategory based on paragraph (A)(1) of rule 3745-51-22 of the Administrative Code with pH less than or equal to 2	RCORR NEUTR INCIN	NEUTR INCIN
D002	Alkaline Subcategory based on paragraph (A)(1) of rule 3745-51-22 of the Administrative Code with pH greater than or equal to 12.5	NEUTR INCIN	NEUTR INCIN
D002	Other Corrosives based on paragraph (A)(2) of rule 3745-51-22 of the Administrative Code	CHOXD CHRED INCIN STABL	CHOXD CHRED INCIN
D003	Water Reactives based on paragraphs (A)(2), (A)(3), and (A)(4) of rule 3745-51-23 of the Administrative Code	INCIN WTRRX CHOXD CHRED	NA
D003	Reactive Sulfides based on paragraph (A)(5) of rule 3745-51-23 of the Administrative Code	CHOXD CHRED INCIN STABL	CHOXD CHRED BIODG INCIN
D003	Explosives based on paragraphs (A)(6), (A)(7), and (A)(8) of rule 3745-51-23 of the Administrative Code	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN
D003	Other Reactives based on paragraph (A)(1) of rule 3745-51-23 of the Administrative Code	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN
K044	Wastewater treatment sludges from the manufacturing and processing of explosives	CHOXD CHRED INCIN	CHOXD CHRED BIODG CARBN INCIN

EPA hazardous waste number and subcategory		Non-wastewaters	Wastewaters
K045	Spent carbon from the treatment of wastewaters containing explosives	CHOXD CHRED INCIN	CHOXD CHRED BIODG CARBN INCIN
K047	Pink or red water from TNT operations	CHOXD CHRED INCIN	CHOXD CHRED BIODG CARBN INCIN
Footnotes: NA stands for "not applicable"; "fb" stands for "followed by."			

[Comment: For dates of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see rule 3745-50-11 of the Administrative Code titled "Incorporated by reference."]