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1.

가. (Wastewaters)

- UV Photo-Oxidation (ambient temperature)
- UV Photo-Catalytic Oxidation (ambient temperature)
- Electron Beam (ambient temperature)
- Chromox (ambient temperature)
- Ultrasonics (average ambient temperature)
- Electrohydraulic Discharge (average ambient temperature)
- Liquid Corona (average ambient temperature)
- Mixed Oxidants (MIOX) process (up to 60°C)
- Electrochemical Peroxidation (15~70°C)
- X-Ray/Gamma Ray Destruction (ambient temperature)
- Supercritical Water Oxidation (above 374°C).

Mediated electrochemical oxidation, acid digestion catalyzed wet  
oxidation (DETOX<sup>SM</sup>)

(concentrated organic liquids)

(sludges)

- Wet Air Oxidation (150?325°C)
- Wet Oxidation (80?100°C)
- Catalyzed Wet Oxidation (Delphi DETOX<sup>SM</sup>) (200°C)
- Acid Digestion (phosphoric/nitric acid) (185?200°C)
- Mediated Electrochemical Oxidation  
(three concepts based on silver, cerium, and cobalt (50?60°C))
- Peroxydisulfate (Direct Chemical Oxidation) process (80?100°C)
- Neutralization/Hydrolysis (ambient temperature)
- Supercritical Water Oxidation (above 374°C)
- Steam Reforming (300?1,200°C)
- ChemChar (1,200°C)
- Eco Logic process (850?950°C).

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(300?1,200°C)

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*de novo* synthesis

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. 가 (Combustible Debris)

- Catalyzed Wet Oxidation (Delphi DETOX<sup>SM</sup>) (200°C)
- Acid Digestion (phosphoric/nitric acid) (185?200°C)
- Steam Reforming (300?1,200°C)
- ChemChar (1,200°C)
- Eco Logic process (850?950°C).

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oxidation) (supercritical water  
ChemChar Eco Logic process . Steam reforming,  
ultrasonic  
carbonate DETOX<sup>SM</sup>, acid digestion, direct  
chemical oxidation

2. Dioxin 가

가. Ultrasonics, electrohydraulic discharge liquid corona

가 (free oxygen) (hydroxyl radical)

(1000 1 ), 가

(Wet air oxidation)

dissolved oxygen

325°C

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. Steam reforming, ChemChar

Eco Logic

deacon

reaction

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*de novo*

dioxins

furans

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가 가

supercritical water oxidation

*de novo*

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