

## SCHEDULE 1

Regulation 3(a)

Uses otherwise than as fuel

### A. WHOLLY NON-FUEL USES

1. Electricity in electrolysis for the production of:
  - Fluorine
  - Chloroalkali (chlorine, caustic soda and caustic potash)
  - Hydrogen peroxide, persulphates, chlorates and peroxyorganic acids by electro-oxidation
  - Aluminium
  - Copper
  - Basic materials directly from an ore or other compound (electrowinning)
  - Advanced chemicals from other more basic chemicals
2. Electricity in the following types of electrolysis:
  - Electro-organic synthesis of fine organics and intermediates such as adiponitrile
  - Gold and silver electrolysis, and the electrolytic dissolution of platinum group metal alloys and alkali earth metals such as sodium, potassium, lithium and calcium
  - Electrolysis to purify materials (as distinct from electrowinning)
  - Electrolysis in refining tin or copper from impure metals or ingots
  - Electrolysis involving sodium chlorate, potassium permanganate, potassium dichromate, manganese dioxide, cuprous oxide, sorbitol, fatty alcohols
3. Electricity in battery formation
4. Natural gas as feedstock to produce hydrogen and for hydrogenation reactions
5. Natural gas in the production of hydrogen and carbon monoxide for the reduction and subsequent purification of nickel
6. Natural gas as a feedstock in producing acetic acid and acetic anhydride by a partial oxidation process
7. Natural gas to provide carbon in producing carbon-carbon composites
8. Natural gas in manufacturing sodium cyanide
9. Natural gas and propane in steam reformers to produce a mixture of hydrogen and carbon monoxide in the production of:
  - Fertilisers
  - OXO (Oxonation) chemicals – detergent and plasticiser alcohols
  - Phosgene
  - Ammonia
  - Higher alcohols, synthetic fuels, plastics precursors
  - Methanol, methyl tertiary butyl ether, formaldehyde, formic acid, acetic acid, methyl amines, single cell proteins
10. Methane as a feedstock in producing higher paraffins and their derivatives
11. Liquefied petroleum gas as a propellant in aerosols
12. Liquefied petroleum gas as feedstock in the cracking process to produce lower olefins

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13. Lower olefins as feedstock for conversion by chemical processes
14. Propylene as feedstock in the manufacture of propan-2-ol (iso-propyl alcohol), polypropylene and cumene
15. Petroleum coke in the manufacture of carbon and graphite electrodes
16. Coke as a resistor in electro-thermal furnaces
17. Coke in the manufacture of titanium dioxide by the chloride process

## B. MIXED USES

***These mixed uses are the only ones that involve relevant commodities being used partly as fuel and partly not, but which are specified as being uses that are not to be taken as being uses of those commodities as fuel (see paragraph 18(3) of the Act).***

18. Coal, coke and natural gas as chemical reductants for ironmaking, for example, in blast furnaces
19. Coal, coke and natural gas as chemical reductants in the blast furnace production of zinc and other non-ferrous metals
20. Coal and coke in the recarburising of iron and steel
21. Coke breeze in a sinter plant to assist in the agglomeration of iron ore and its subsequent chemical reduction in blast furnaces
22. Coke injected into electric arc furnaces to control the chemistry of the steel and the steelmaking slag
23. Coke charged to electric arc furnaces to control the oxygen activity of the steel melt
24. Coke as a carburiser in iron casting
25. Coke as a source of carbon dioxide in the Ammonia Soda process for producing soda ash
26. Anthracite as a reductant in the smelting of precious metals
27. Gas for vacuum reduction in metal powder production and to maintain carbon content in metal during the sintering process
28. Gas to maintain or increase the carbon content of metals during heat treatment
29. Natural gas as a reductant in emission control systems, for example, in the reduction of oxides of nitrogen
30. Natural gas in the manufacture of methacrylate monomers and polymers including that natural gas used for emission control which is an integral and essential part of the manufacturing process
31. Natural gas as feedstock in the production of carbon black
32. Natural gas as feedstock in a gas generator supplying a reducing atmosphere for the treatment or annealing of metal products
33. Liquid propane in the production of ethylene where heat is provided either by combustion of the waste products or from another source
34. Commodities in reduction furnaces for the production of lead
35. Commodities in the reduction of chlorine
36. Commodities to form reducing atmospheres, for example, in the refining and manipulation of molten copper to control oxygen levels

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**37.** Commodities in ASARCO (American Smelting and Refining Company) shaft furnaces, the deoxidisation of copper swarf and the annealing of copper and copper alloys to provide a reducing atmosphere