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 ****************************************************************

           Population analysis using the SCF density.

 ****************************************************************

 Orbital symmetries:
       Occupied  (SG) (SG) (SG) (SG) (PI) (PI) (SG) (PI)
       Virtual   (PI) (SG)
 Unable to determine electronic state:  partially filled degenerate orbitals.
 Alpha  occ. eigenvalues --  -20.52505 -15.50780  -1.69304  -0.81432  -0.68897
 Alpha  occ. eigenvalues --   -0.67798  -0.58160   0.03604
 Alpha virt. eigenvalues --    0.30593   1.25981
     Molecular Orbital Coefficients
                             1         2         3         4         5
                           (SG)--O   (SG)--O   (SG)--O   (SG)--O   (PI)--O
     EIGENVALUES --    -20.52505 -15.50780  -1.69304  -0.81432  -0.68897
   1 1    N  1S          0.00039   0.99425  -0.15221   0.16064   0.00000
   2         2S         -0.01091   0.02691   0.33750  -0.61991   0.00000
   3         2PX         0.00000   0.00000   0.00000   0.00000   0.50766
   4         2PY         0.00000   0.00000   0.00000   0.00000   0.00000
   5         2PZ        -0.00751   0.00858   0.21728   0.03430   0.00000
   6 2    O  1S          0.99411  -0.00028  -0.20105  -0.16160   0.00000
   7         2S          0.02927  -0.00942   0.62096   0.76536   0.00000
   8         2PX         0.00000   0.00000   0.00000   0.00000   0.72668
   9         2PY         0.00000   0.00000   0.00000   0.00000   0.00000
  10         2PZ        -0.00889   0.00317  -0.26933   0.49436   0.00000
                             6         7         8         9        10
                           (PI)--O   (SG)--O   (PI)--O   (PI)--V   (SG)--V
     EIGENVALUES --     -0.67798  -0.58160   0.03604   0.30593   1.25981
   1 1    N  1S          0.00000  -0.12714   0.00000   0.00000  -0.11587
   2         2S          0.00000   0.67227   0.00000   0.00000   1.20253
   3         2PX         0.00000   0.00000   0.91342   0.00000   0.00000
   4         2PY         0.52730   0.00000   0.00000   0.90223   0.00000
   5         2PZ         0.00000  -0.60070   0.00000   0.00000   1.31303
   6 2    O  1S          0.00000  -0.01766   0.00000   0.00000   0.13143
   7         2S          0.00000   0.15076   0.00000   0.00000  -1.29048
   8         2PX         0.00000   0.00000  -0.75099   0.00000   0.00000
   9         2PY         0.71027   0.00000   0.00000  -0.76653   0.00000
  10         2PZ         0.00000   0.51375   0.00000   0.00000   1.14247
```