$$\Psi_{61} = C_1 \left(|0duu\rangle + |0udu\rangle + |0uud\rangle + |d0uu\rangle + |du0u\rangle + |duu0\rangle + |u0du\rangle + |u0ud\rangle + |ud0u\rangle + |udu0\rangle + |uu0d\rangle + |uud0\rangle\right)$$

$$C_1 = \frac{1}{2\sqrt{3}}$$