

## A SURVEY OF HNCO AND CH<sub>3</sub>NCO IN MOLECULAR CLOUDS

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Following the first interstellar detection of CH<sub>3</sub>NCO in Sgr B2(N) by Halfen et al. (2015), a survey of this species and its likely precursor HNCO has been conducted towards several dense molecular clouds. Three transitions of CH<sub>3</sub>NCO in its  $K_a = 0$  ladder for both A and E internal rotation states were searched for at 3 mm, using the new ARO ALMA Prototype 12 m telescope. In addition, two transitions of HNCO in its  $K_a = 0$  and 2 ladders were observed near 88 and 110 GHz. Emission from CH<sub>3</sub>NCO was detected towards Orion-KL, G34.3, W51M, Sgr B2(2N), and DR-21(OH) with intensities of  $T_A^* \approx 10\text{--}40$  mK. HNCO was also found in each source observed. The ratio of HNCO/CH<sub>3</sub>NCO estimated from these data is around 25 - 45, consistent with that derived from Sgr B2(N). These results suggest that HNCO is most likely the chemical precursor to CH<sub>3</sub>NCO.