Support Information

Thermal Decomposition Characteristics and Thermal Safety of Dihydroxylammonium 5, 5'-Bistetrazole-1, 1'-Diolate Based on Microcalorimetric Experiment and Decoupling Method

Yabei Xu, Yingxin Tan*, Weiguo Cao, Yuxin Zhao, Bin Tian

School of Environmental and Safety Engineering, North University of China, Taiyuan 030051, PR China

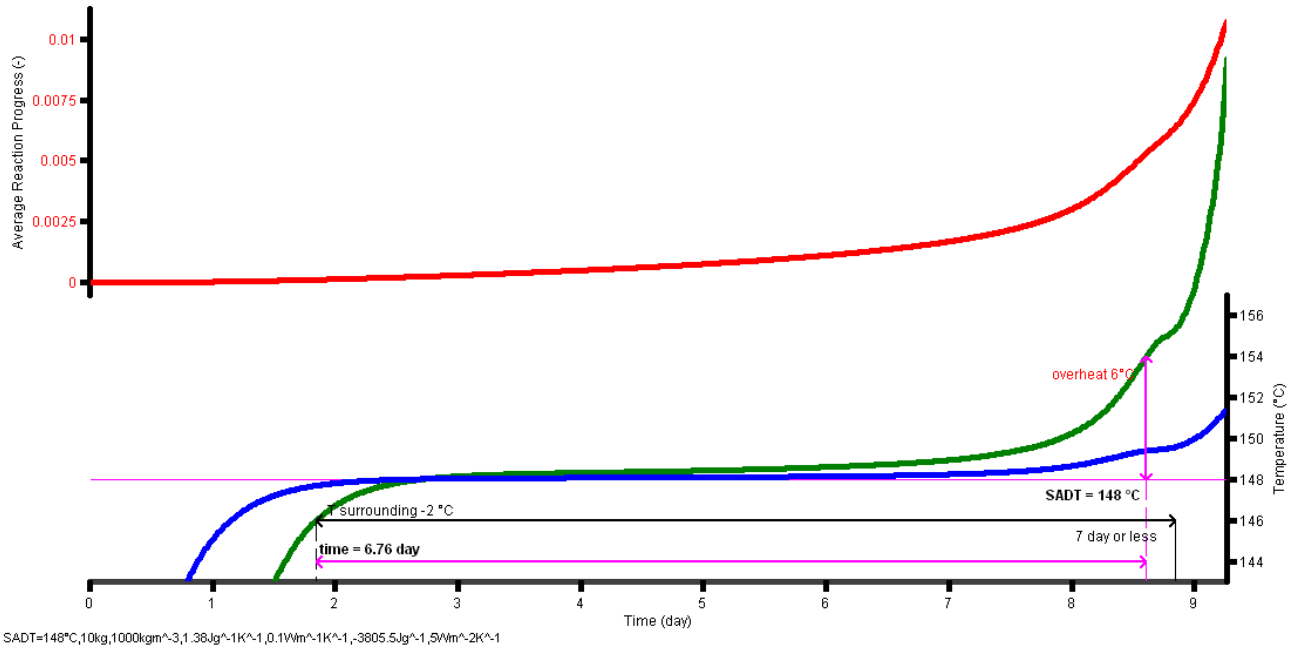

Figure S1 Calculation results of TKX-50 self-accelerated decomposition temperature (10.0 kg, C600)

*Corresponding author.
E-mail address: nuctyxnuc@163.com (Y.X.Tan)

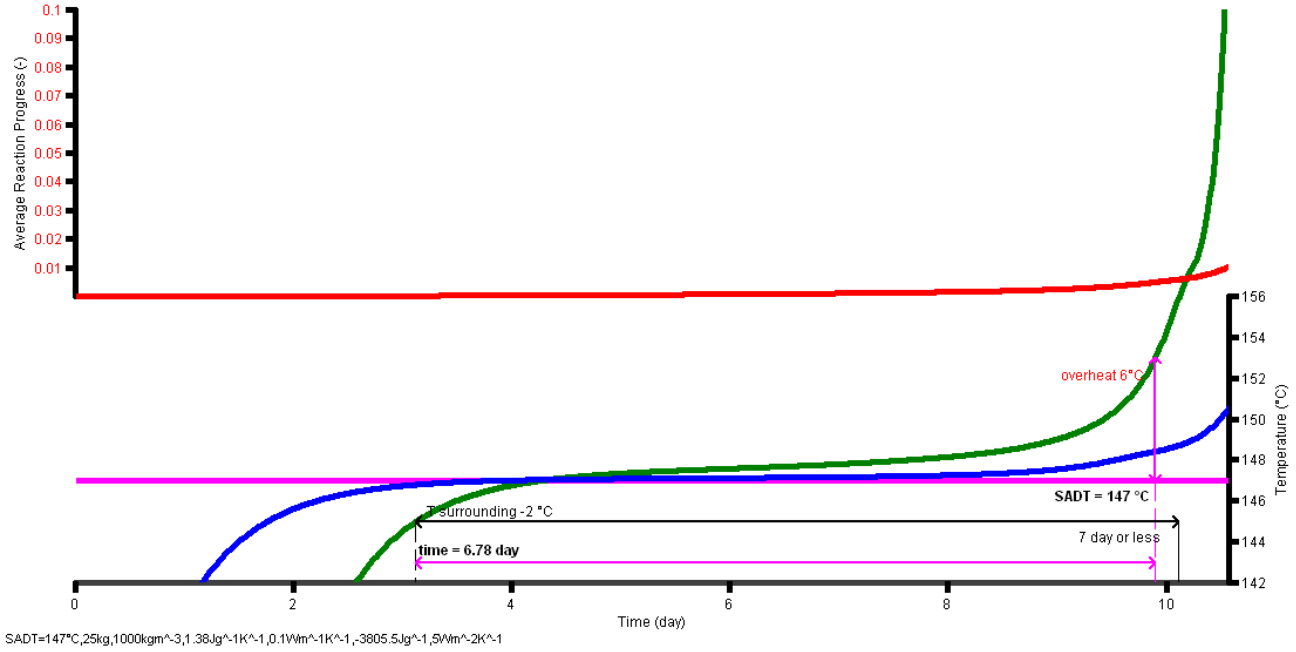

Figure S2 Calculation results of TKX-50 self-accelerated decomposition temperature (25.0 kg, C600)

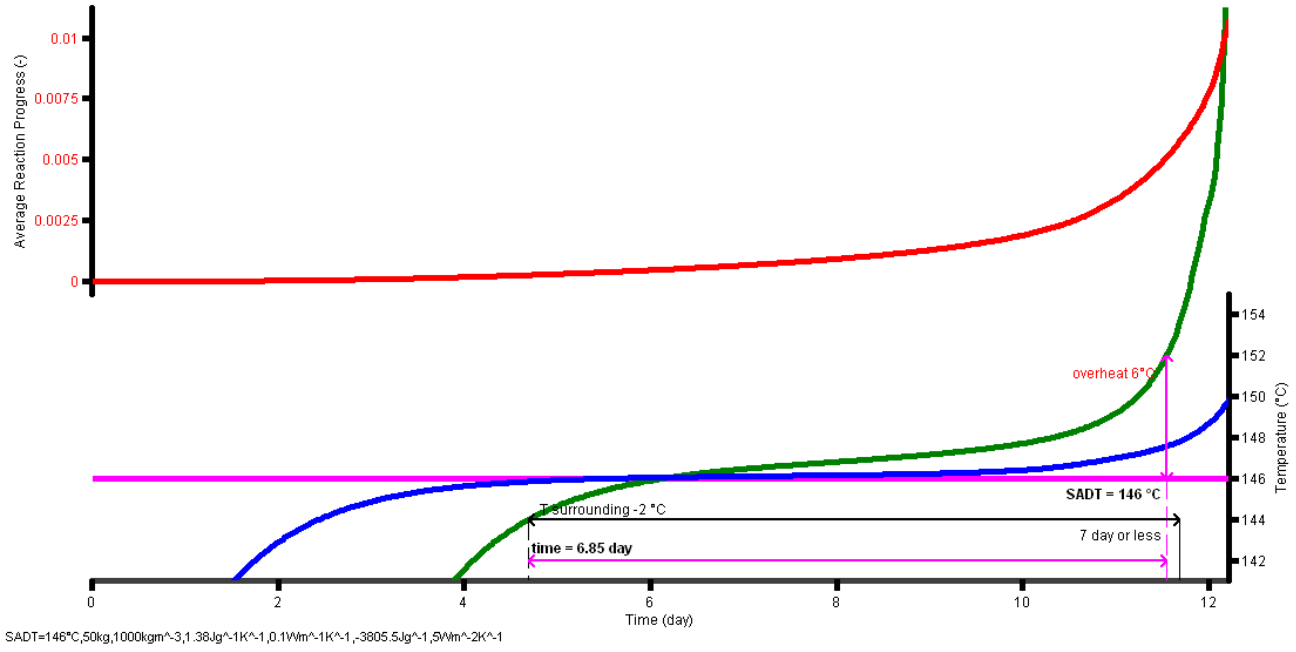

Figure S3 Calculation results of TKX-50 self-accelerated decomposition temperature (50.0 kg, C600)

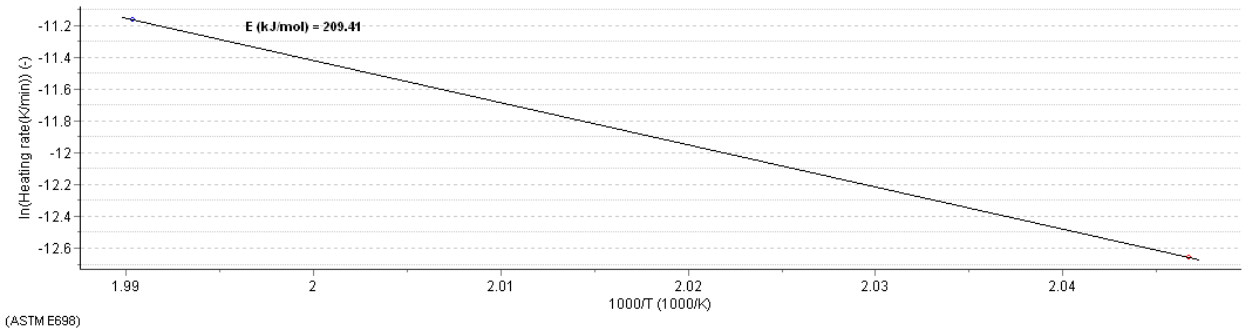

Figure S4 The apparent activation energy fitting line（isothermal conditions）

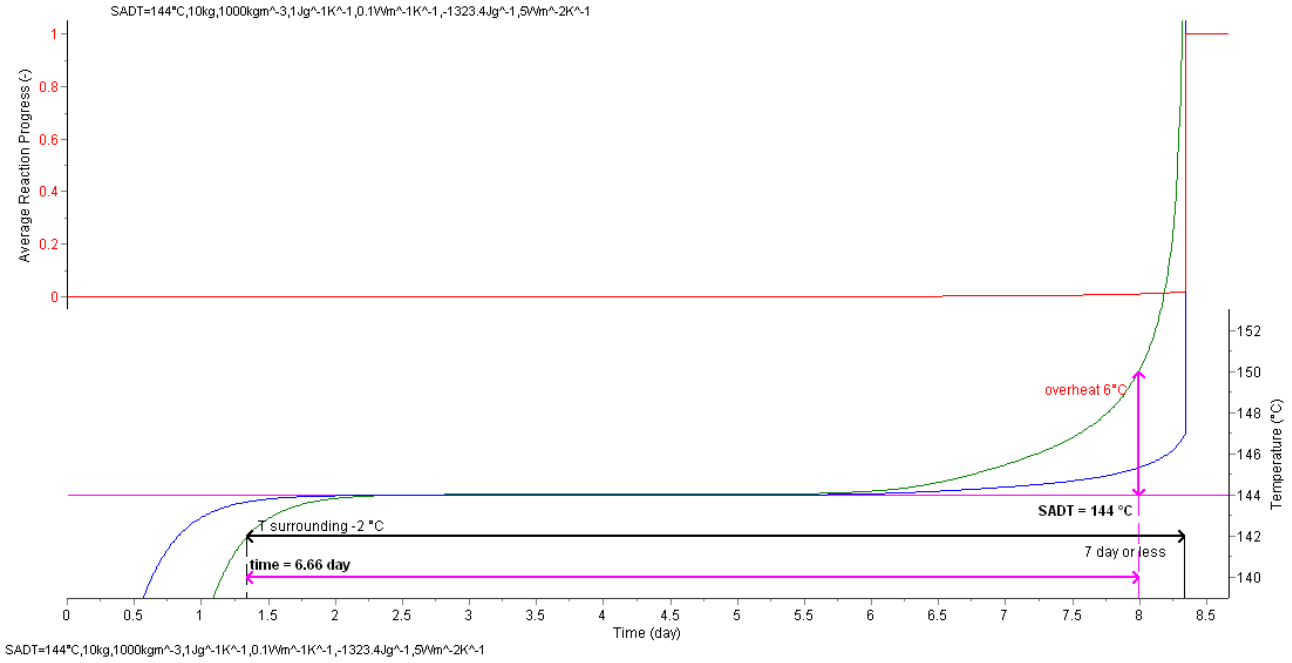

Figure S5 Calculation results of TKX-50 self-accelerated decomposition temperature (10.0 kg, isothermal conditions)

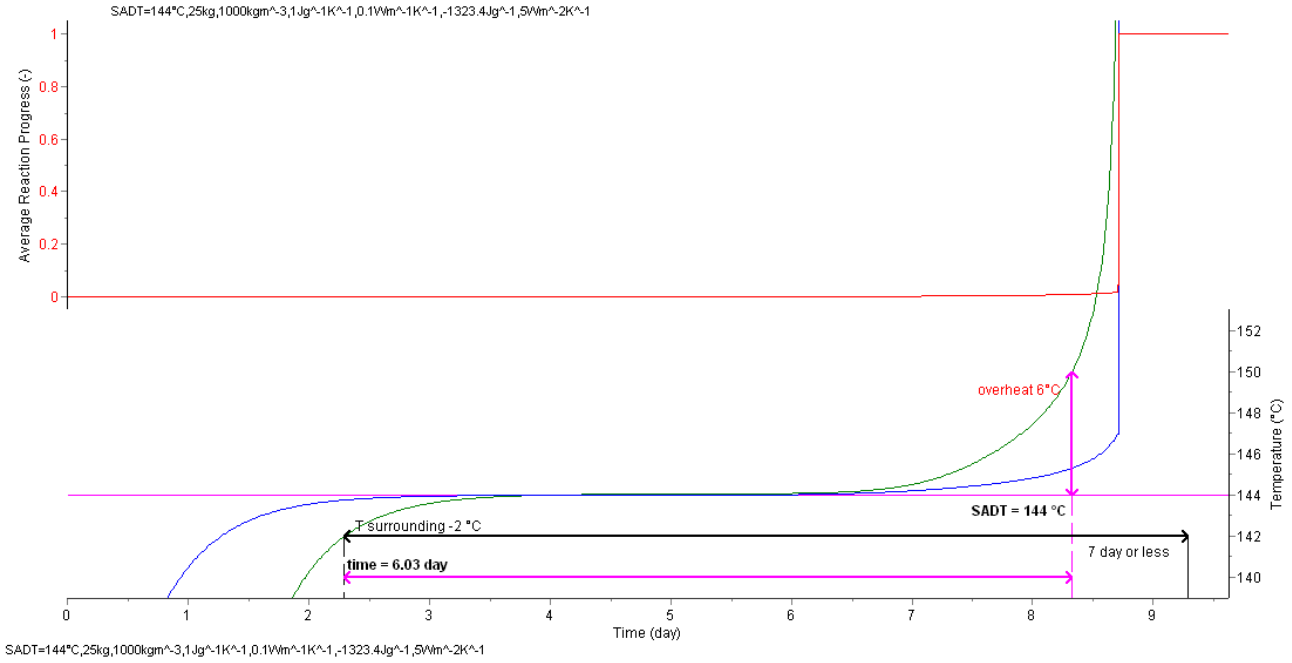

Figure S6 Calculation results of TKX-50 self-accelerated decomposition temperature (25.0 kg, isothermal conditions)

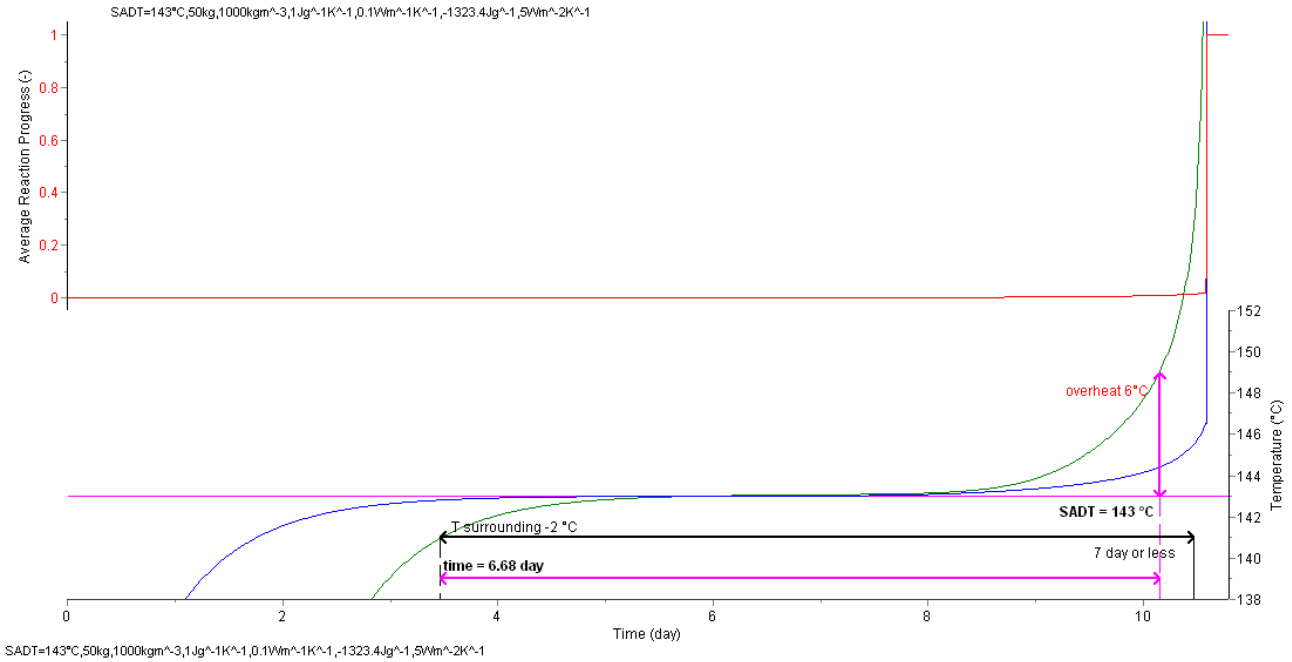

Figure S7 Calculation results of TKX-50 self-accelerated decomposition temperature (50.0 kg, isothermal conditions)

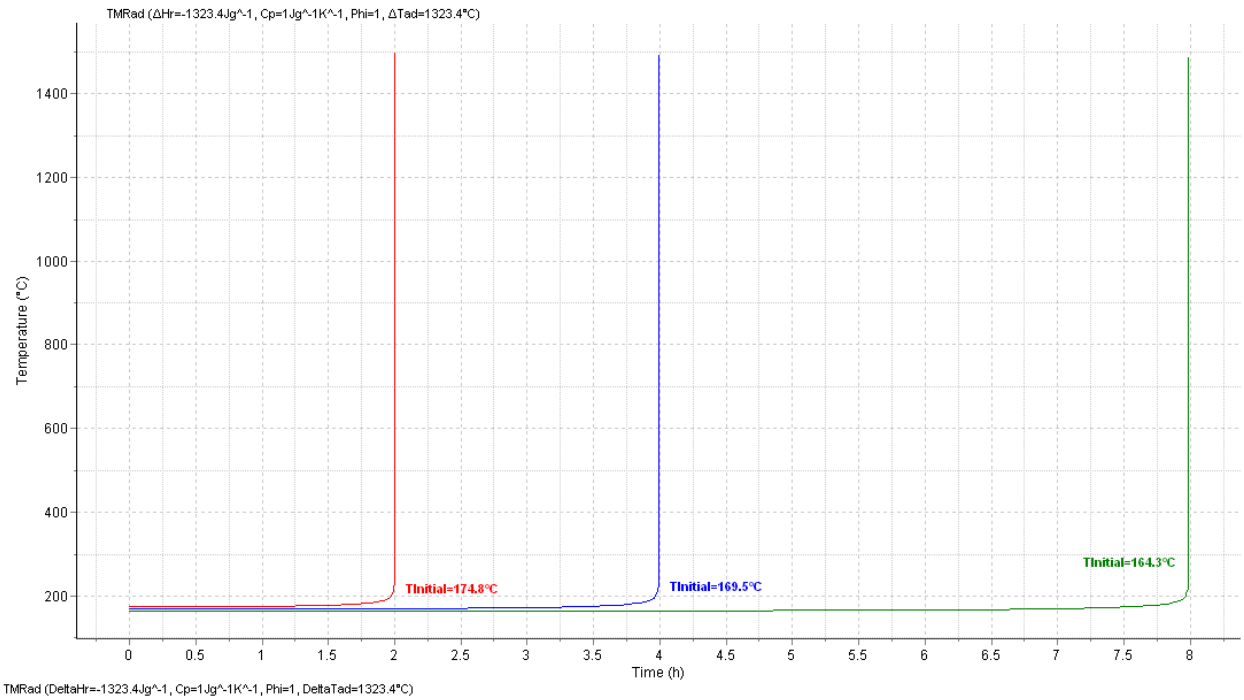

Figure S8 Adiabatic temperature simulation of TKX-50 at different temperatures (isothermal conditions)

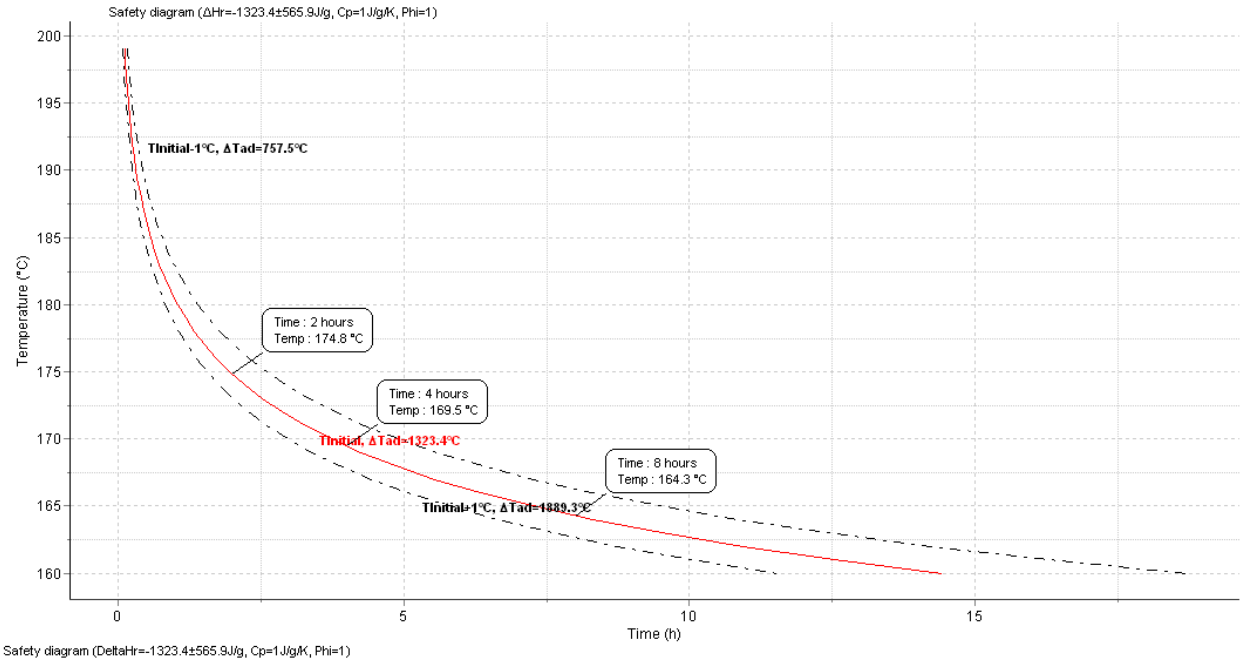

Figure S9 TMR_{ad} of TKX-50 at different temperatures (isothermal conditions)

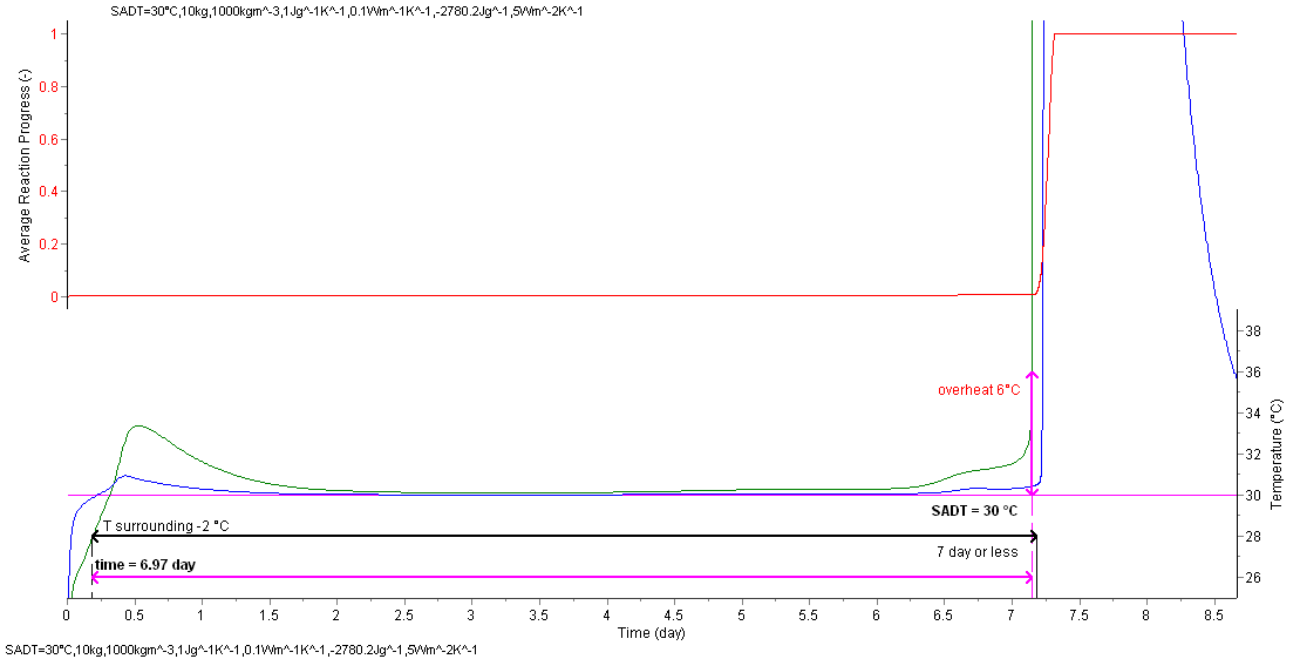

Figure S10 Calculation results of TKX-50 self-accelerated decomposition temperature (10.0 kg, Thermal history conditions)

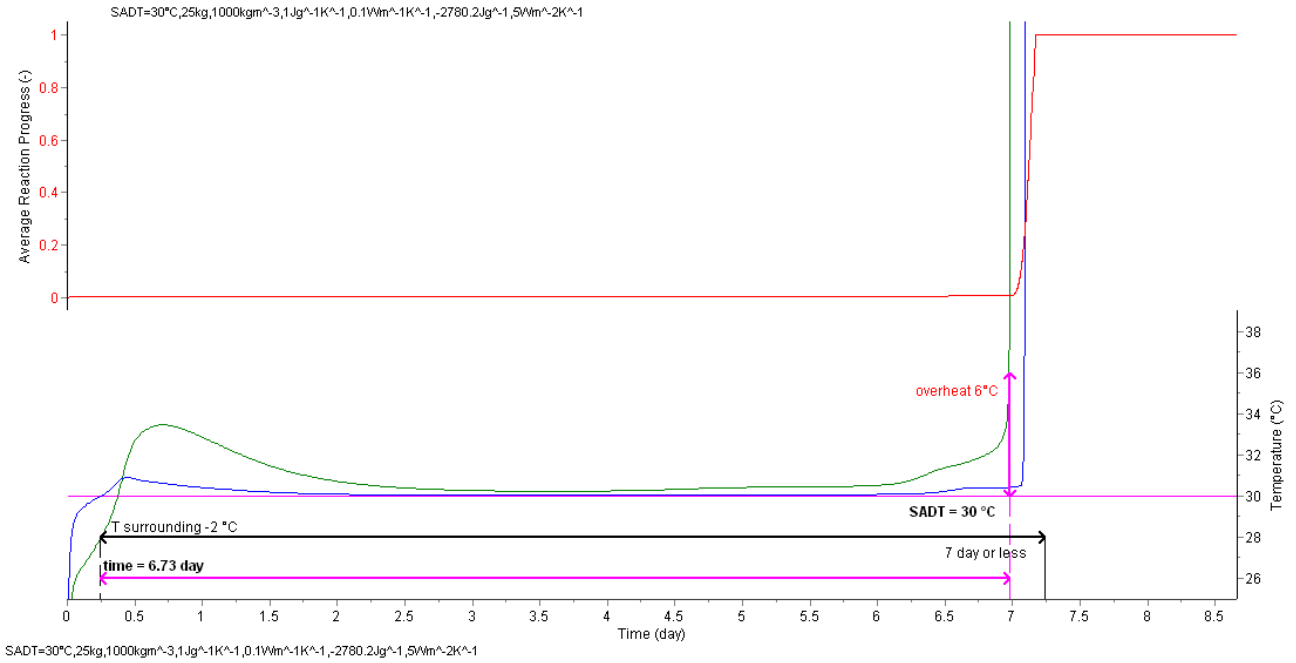

Figure S11 Calculation results of TKX-50 self-accelerated decomposition temperature (25.0 kg, Thermal history conditions)

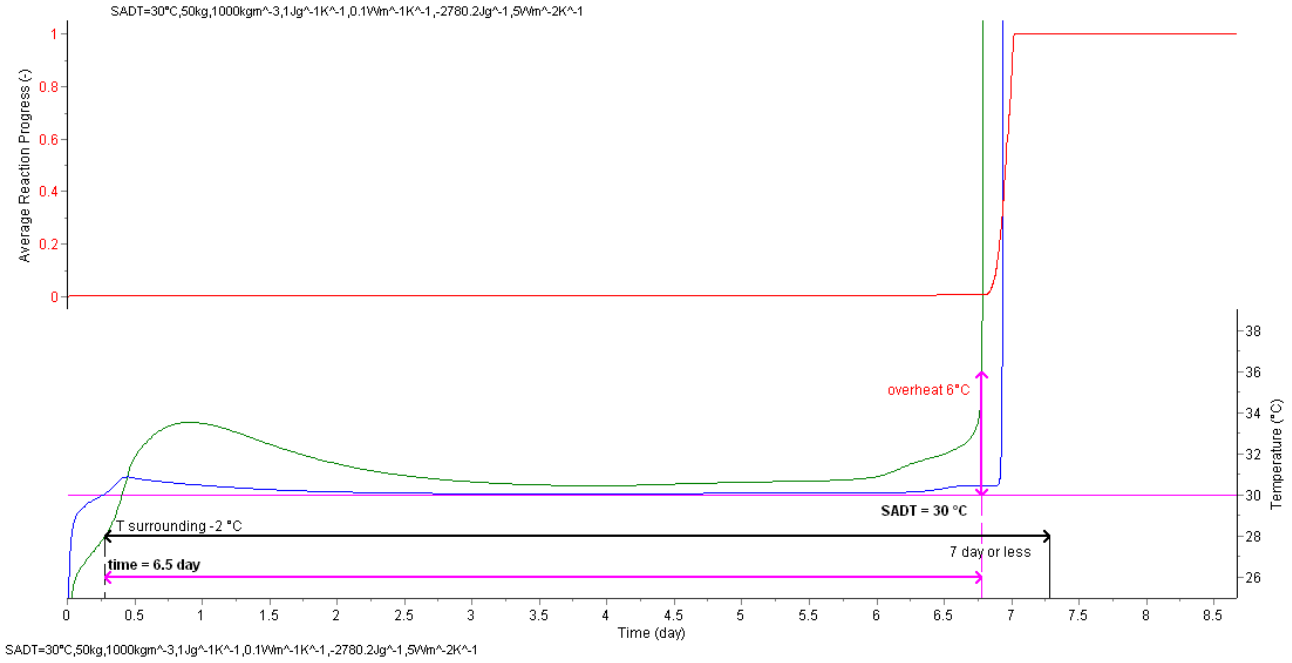

Figure S12 Calculation results of TKX-50 self-accelerated decomposition temperature (50.0 kg, Thermal history conditions)