

$$\begin{aligned}
& (\forall X. ((AdultF(X) \rightarrow DIAMOND1F(X)) \wedge \\
& (MinorF(X) \rightarrow BOX0F(X)) \wedge \\
& \Box_F((\bigcirc_F DIAMOND1F(X) \leftrightarrow (DIAMOND1F(X) \vee \bigcirc_F MinorF(X))) \wedge \\
& (DIAMOND2P(X) \leftrightarrow \Diamond_F MinorP(X)) \wedge \\
& (\bigcirc_F BOX0F(X) \leftrightarrow (BOX0F(X) \wedge \\
& \bigcirc_F MinorF(X))) \wedge \\
& (BOX3P(X) \leftrightarrow \Box_F MinorP(X))) \wedge \\
& (DIAMOND1F(X) \leftrightarrow DIAMOND2P(X)) \wedge \\
& (MinorF(X) \leftrightarrow MinorP(X)) \wedge \\
& (AdultF(X) \leftrightarrow AdultP(X)) \wedge \\
& (BOX0F(X) \leftrightarrow BOX3P(X))))
\end{aligned}$$