5. The apparatus of any of claims 1-4, wherein the second portion of the cover is configured to extend through the opening in the base of the housing and into the cavity of the housing.

6. The apparatus of any of claims 1-5, wherein the first portion of the cover includes a recess dimensioned to receive at least a portion of the base of the housing.

7. The apparatus of any of claims 1-6, wherein the second portion of the cover includes a recess dimensioned to receive the plurality of microneedles protruding from a first surface on the first side of the microneedle array.

8. The apparatus of claim 7, wherein the recess in the second portion of the cover is defined by an inner surface, and wherein the inner surface of the cover and the first side of the microneedle array together define a chamber for housing the plurality of microneedles prior to use.

9. The apparatus of claim 8, wherein the chamber is a sterile chamber.

10. The apparatus of any of claims 1-9, wherein the second portion of the cover includes a microneedle-facing recess, and wherein the first side of the microneedle array includes a cover-facing recess, and further comprising a sealing member dimensioned to be received in the microneedle-facing recess and the cover-facing recess.

11. The apparatus of claim 10, wherein the second portion of the cover includes a sealing member configured to be coupled to at least one of the microneedle array and the microneedle array holder to define a chamber for housing the plurality of microneedles prior to use.

12. The apparatus of any of claims 1-11, wherein the first portion of the cover is configured to protect at least the portion of the base of the housing configured to be coupled to the skin surface.

13. The apparatus of any of claims 1-12, wherein the second portion of the cover is configured to be coupled to at least one of the microneedle array and the microneedle array holder.

14. The apparatus of any of claims 1-13, wherein the ~~microneedle applicator~~apparatus further includes an actuator movable with respect to the housing between a first position and a second position to cause the microneedle array holder to move from the retracted position to the extended position, wherein, at least when the actuator is in the first position, at least a portion of the actuator protrudes from the

opening in the base of the housing and defines ~~a~~ an actuator base configured to be coupled to the skin surface, and wherein the cover is configured to cover at least the actuator base ~~of the actuator~~, wherein the cover is removable from the remainder of the apparatus, and wherein when the cover is coupled to the apparatus, the cover is positioned to prevent the actuator from being moved to its second position.

15. The apparatus of any of claims 1-14, wherein the housing includes a protrusion that defines the base of the housing, and wherein the first portion of the cover includes a recess dimensioned to receive the protrusion of the housing.