CLAIMS

CLAIM 1

A bismuth sulfide particle having a value of 22.0 or lower as an L^* value of a powder of the bismuth sulfide particle in an L*a*b* color system.

CLAIM 2

The bismuth sulfide particle according to claim 1, wherein a reflectance at a wavelength of 1200 nm is 30.0% or higher.

CLAIM 3

The bismuth sulfide particle according to claim 1 or 2, wherein a reflectance at a wavelength of 750 nm is 15.0% or lower.

CLAIM 4

The bismuth sulfide particle according to any one of claims 1 to 3, wherein a reflectance at a wavelength of 1550 nm is 50.0% or higher.

CLAIM 5

An infrared reflective material comprising the bismuth sulfide particle according to any one of claims 1 to 4.

CLAIM 6

A laser reflective material for laser imaging detection and ranging (i.e., LiDAR) comprising the bismuth sulfide particle according to any one of claims 1 to 4.

CLAIM 7

A solvent composition comprising: the bismuth sulfide particle according to any one of claims 1 to 4; and a solvent.

CLAIM 8

A resin composition comprising: the bismuth sulfide particle according to any one of claims 1 to 4; and a resin.

CLAIM 9

A paint composition comprising: the bismuth sulfide particle according to any one of claims 1 to 4; and a resin for a paint.

CLAIM 10

A paint film comprising the paint composition according to claim 9.

CLAIM 11

A method for producing a bismuth sulfide particle, comprising the steps of: mixing a bismuth compound and a sulfur compound in an aqueous dispersion medium so that a ratio of the number of moles of sulfur atoms to the number of moles of bismuth atoms (i.e., a S/Bi molar ratio) is a range from 3.5 or higher to 20 or lower; and then heating the mixture at a temperature from 30°C or higher to 120°C or lower.