Existing Solutions:

Fixatives:

Fixatives provide a
 protective layer over
 pastels similar to a
 finishing glaze. While it
 helps the dust not rub
 off, it often ruins the
 quality of the artwork and
 can stain the paper. This
 also does not eliminate
 the particles already in
 the air and can only be
 applied after.

Masks:

 Masks help prevent against the inhalation of pastel dust but can provide a false sense of security. For those with certain heart and lung diseases, breathing through a respirator or mask might prove difficult. There is also the issue of sizes and breathing stress.

Highly Toxic Pigments:

- Antimony White (antimony trioxide)
- Barium yellow (barium chromate)
- Burnt or raw umber (iron oxides, manganese, silicates or dioxide)
- Cadmium red, orange, yellow, or barium colors (cadmium sulfide, cadmium selenide)
- Chrome green, orange, or yellow (lead chromate)
- Cobalt violet and yellow (lead Chromate)

These heavy metals can cause lung cancer, skin cancer, nerve damage, kidney damage, and anemia.



Pastel Dust

When pressed on a canvas, paper, or other surfaces, pastels create dust and smaller pieces that can have harmful long term effects and cause a mess.

Breathing in the dust created by the use of pastel sticks has been found to have harmful effects on the respiratory system (contains small enough particles to enter the alveoli, the lung air sacs), and they may contain materials that are suspected carcinogens (complex hydrocarbons such as benzidines and anthraquinones).



Additional Facts:

- Inorganic and organic pigments can be toxic and aren't always listed on labels
- The dust is also very messy and spreads quickly, consisting of extremely fine particles which make it easier to inhale
- This issue affects artists
 who use pastels in their
 work as well as students
 and others who use this
 medium for
 experimentation.
- This problem has been around since the beginning of this medium's use (though unaware to the public for some time) for about 250 years



This problem should be solved so people can create freely without having to worry about their health or the messiness of their room.

PERSONAL INFORMATION

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