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Subject: Air Quality Control Plan and Chemical Storage Protocol for opening a Nail Parlor (Sui Generis).

SITE LOCATION: 12 North Road, Lancing, West Sussex, BN15 9AE

This statement provides the details about the maintenance of air quality and fumes control and safe storage of nail bar chemicals, for the opening of nail saloon.

At Source Extraction:

In order to eliminate the dust, vapours (smells) and fumes that are harmful not only to the technician but also to the client, specially designed extraction system for the beauty and cosmetic industry will be used to extract and remove potentially harmful fumes and airborne dust generated within the nail salon environment.

HSE (Health & Safety Executive) (SR13) recommends that a salon should have good standard of ventilation. For this purpose, several options are considered. Based on the market research, manufacturer statistical data and product specification the following “At Source Extraction” systems are shortlisted:

- VODEX SalonAIR® 1001 (SA1001) (1)
- Bofa Pure Beauty - Nail Salon Dust and Fume Extractor E2042A0000 (2)
- GraphicAir Pure 200 – Nail Dust Filtration and Fume Extraction System (3)

Many systems currently available on the market are simply elaborate fans or air purifiers and do not extract fumes to the levels required by law. These systems, on the other hand, achieves a high level of extraction by using multi-level of filtration. According to the manufacturers all these systems:

- Complies with all the legal requirements under Health and Safety and under HSE/COSHH, and also provides protection for the technicians and clients.
- Use a Multi-Layered Filter Cell System captures all the harmful contaminants, filters it and returns clean air into the salon.
- Equipped with ePM-C 90% Filters
- Comes with H13 EN1822 HEPA Filter 99.95% @ 0.1µm
- And also have Blended DeepBed Carbon Filter
- Lockable Castors,
- Low Energy CE Approved,
- Low Noise <57dBa

In Saloon Setup:

The extraction arm enables these units to be placed just above the client's nails during the treatment. The system then provides constant extraction of the targeted area. Dusts are captured in the system filters, and gases/smells are absorbed by the carbon layer within the main filter. Larger dust particles, such as chips of nail polish, are filtered by the pre-filter, which is easily replaced. An indicator on the unit will light up when the filter needs replacement. Clean air is exhausted through the bottom or back of the unit and back into the room and breathing space. The units are compact, and will sit next to, or underneath, most beauty therapy tables. Please see the below arrangement pictures Taken from the manufacturer website.


VODEX


salonAIR



Room Air Change:

In addition to above described “At Source Extraction”, the additional provisions will be arranged to change the room air and to maintain the air quality. For this purpose, Commercial Axial Extractor Fans may be installed on the front window. There are several options in the market, that can be adopted. However, the final selection is made based on the following features.

- Considerable extraction Rate
- Noise Level <60dBA
- Reversible operation mode, so that it is able to extract inner air from shop and add outer air into the shop.
- Window mounted so that any internal works may avoided.
- Insulated
- Auto Shutter

Room air changes per hour:

MANROSE WF230A commercial axial extractor has extraction rate of 668m³/hr [(4)]

Extraction rate = 668m³/hr = 11.13 m³/min

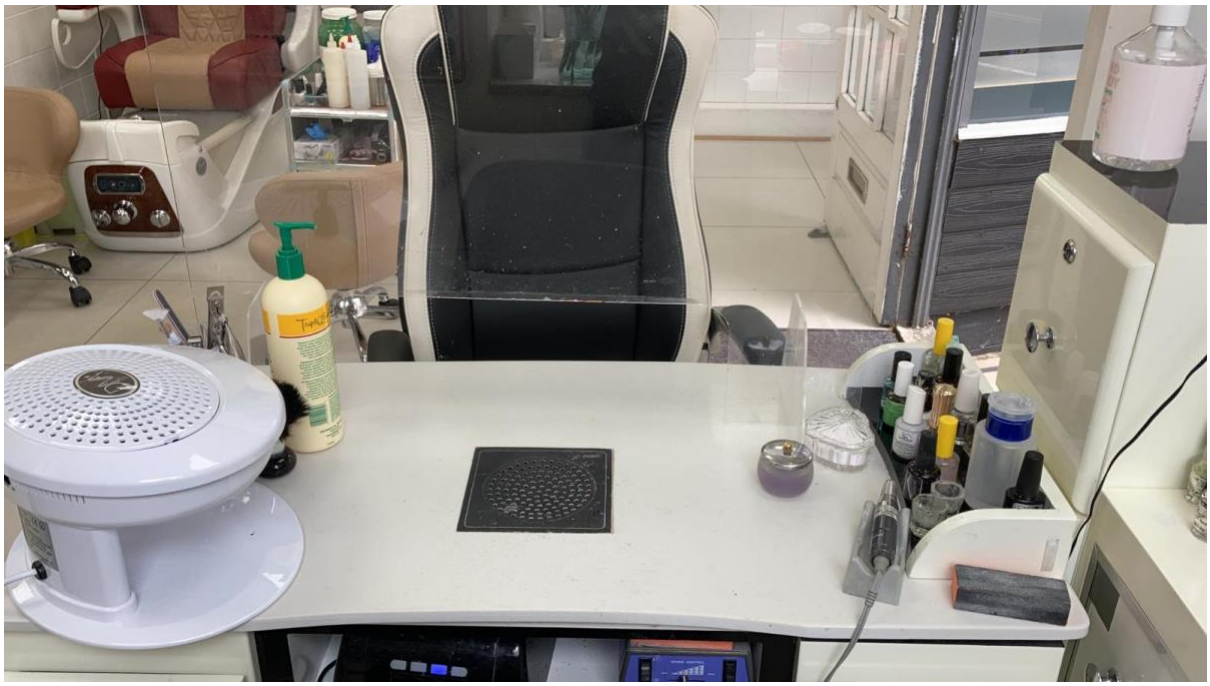
Effective Shop Floor Area = 41.47 m^2, Ceiling Height = 2.4 m

Volume of the Shop = 41.47 x 2.4 = 99.528 m³

Air Changes per hour = 668/78 = 6.71/h

Current Practice:

Currently the nail saloons operating in the inner London and other surrounding boroughs are using the same technique i.e. “At Source Extraction” systems. I am attaching an example below, this picture is taken from a nail saloon located in central London, where the portable extraction system is fitted in the table. Since the dwelling is located in the shopping centre, hence to avoid any internal works or construction and to evade the listed building consent approval this is the best proposed solution.



Safe Storage of Chemicals Used in Nail Salons:

Definition: The safe storage would mean that all hazardous substances are stored in appropriate containers/cabinets, which are appropriately labelled with correct signage and inaccessible to most. It is an essential part of this new proposed business's legal responsibilities, as proper storage can help to prevent exposure and reduce the risk of harm.

Nail polishes, glues, and other products used in nail salons may contain the chemicals including: Toluene, Acetone, Formaldehyde, Dibutyl Phthalate and Methacrylate compounds. Hence, in order to ensure the safe storage, the HSE guidelines will be followed strictly. For this purpose, the instructions on the Safety Data Sheets (SDS) of the hazardous substances will be fully adhered, these substances would be stored in an area with a clear exit and close to washing facilities. Substances will be stored in appropriate COSHH cabinets, and always be stored separately from any others. The storage area will be separate from process areas. Furthermore, Maintenance, Capacity and Ventilation of the storage containers/cabinets.

References:

(1) VODEX SalonAIR® 1001 (SA1001), Specifications:
https://www.vodex.co.uk/product/vodex-salonair-1001-unit-nail-treatments/

(2) Bofa Pure Beauty - Nail Salon Dust and Fume Extractor E2042A0000, Specifications:
https://www.shopaessolutions.co.uk/bofa-purebeauty-nail-salon-extractor.html

(3) GraphicAir Pure 200 – Nail Dust Filtration and Fume Extraction System, Specifications:
https://www.graphicair.co.uk/product/nail-dust-filtration-and-fume-extraction/

(4) MANROSE WF230A commercial axial extractor, Specifications:
https://www.screwfix.com/p/manrose-wf230a-commercial-axial-extractor-fan-white-220-240v/70940

(5) HSE, 2006. SR13 Nail Bars, COSHH essentials for service and retail.

(6) Health and safety in nail bars, RR627 Research Report, 2008
https://www.hse.gov.uk/research/rrpdf/rr627.pdf