

February 12, 2019

Thrive Society, LLC
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Via email: l.basil.mcmahon@gmail.com

Re: Amended Application Clarification Requests from Nevada City Planning Department

1. Will there be Material Safety Data Sheet (MSDS) safety sheets posted in the workplace?
Yes, in accordance with OSHA regulations, Material Safety Data Sheets are already posted in our manufacturing facility for the following materials:

- Isopropyl Alcohol
- Peroxide Multi-surface Floor Cleaner
- High Performance Neutral Floor Cleaner
- Food Grade Ethanol (Ethyl Alcohol)

Food Grade Ethanol is the solvent which we propose to use in the "Microextraction" activity which we are seeking authorization to conduct. In our cannabis business permit application, we previously received approval to use food-grade ethanol in our facility for making tinctures.

2. Are the ethanol transfer bottles really one quart (or 5th)? Most industrial solvents come in quart or gallon bottles.

We will purchase food grade ethanol in standard 1 gallon bottles and pour off the into the extractor as needed, resealing the gallon container, and storing unused portion back in our flammable liquid storage cabinet

3. And does this step of the operation take place in a chemical hood or out in the open? The Source Turbo is a closed loop device that operates under vacuum. It is designed to operate without emitting fumes into the area it is operating within and thus a hood is not required. Operation would roughly look like this: cannabis material is added to vessel, ethanol is added to vessel, vessel is sealed under vacuum, extraction takes place (2-3 Hours) vessel is opened, ethanol is reclaimed for reuse, extracted material is removed and disposed of, extract is removed and packaged for storage.

4. What are the safety protocols in the event of a spill or broken solvent bottle? All employees handling ethanol will receive safety training and will have access to the ethanol MSDS sheet at all times. They will wear gloves, and eye protection and perform ethanol duties within proximity to our existing eyewash station. The solvent will come originally, and and be stored in plastic bottles so the the risk of breakage is minimized. A spill would be considered a hazardous waste spill. All rags and materials used in the cleanup would be stored in sealed metal container until disposed of lawfully.

5. How and where will ethanol be stored? Are small quantities in the production room or larger supplies in a remote location with all the safety features in place? All ethanol will be stored in our existing and NC Fire approved flammable materials storage cabinet. Extractions would take place on a stainless steel surface. Our facility is equipped to code with sprinklers and fire extinguishers.

6. The Source Turbo manual identifies it for home use. Are you certain you can use this in a commercial application, even if it is just for demonstration purposes?

“The most advanced systems are “Vacuum Assisted Closed Systems,” and this is where the Source Turbo shines. Adding vacuum to a closed system keeps all of the activity enclosed within a self-contained unit allowing virtually nothing to escape and the low internal pressure allows the Source Turbo to boil and evaporate ethanol at nearly body temperature, with a range of 100°F to 105°F under normal operations. The ability to operate at low temperatures in an enclosed environment solves all the problems of the other devices. It’s safe because everything is recollected internally, allowing no dangerous fumes or odors to escape during operation. “

“The Source is a safe, clean, very easy to use appliance that uses vacuum and gentle warming to extract and concentrate essential oils. Throughout the process, the alcohol is recovered for re-use saving the user a lot of money and paying for itself in a very short time. The fully enclosed, closed-loop system also restricts unwanted odors to almost nothing.

The above being said we recognise see that the for home use aspect of this device, while speaking to the ease and safety of use, is a legitimate concern due to homeowner appliances generally being of less robust construction than their commercial counterparts. For this reason we would be happy purchase the commercial version of the Source Turbo, ETOH Pro, in order to address this concern.

<http://www.extractcraft.com/shop/etoh-pro>

The above operates identically to the home use version but is made of more robust materials, increasing safety by decreasing breakability that could lead to spills. Granted it uses more ethanol but no more than one gallon at a time. Due to the closed it’s closed loop nature, ventilation is not required.

Thank you for the opportunity to respond to your questions, Please reach out to me at your convenience graham@thrive-society.com with any further questions or concerns.