

A Complete Guide to **Cannabis Concentrates:**

SOLVENT EXTRACTIONS

Solvent-based extractions use chemical solvents such as ethanol, CO2, butane, or propane to strip cannabis flower of the resin. Because chemical solvents are highly flammable, extractors use what's called a "closed-loop" systems to ensure that there is no exposure. This avoids risks of fire, over-pressurization or explosion.

the resulting product is referred to as 'slurry'. Slurry is a mix of cannabinoids and residual solvent. The appearance can vary depending on what solvent is used. In order to process the slurry into the finished product, it needs to be purged. In any solvent-based extraction, purging is required to rid the product of any

leftover solvent. Purging can be done through a variety of methods such as evaporation, vacuuming or hand-whipping. Each method produces a different end product and signature consistency.



The slurry is then heated at low temperatures and whipped to remove all residual solvent. Because the product is whipped by hand, it gains

Wax and Budder

airy peaks just like whipped cream. Wax is generally dry and notably more crumbly than its counterpart budder. Budder is essentially wax with higher moisture content. The consistency of budder is oily and malleable, while wax concentrates are crumbly and solid. Colors will range from a variety of amber shades complete with a milder aroma and flavor profile. Live Resin Live resin is made much the same way as wax, however, the starting

product is frozen fresh plant matter. The finished product has robust terpene and cannabinoid profiles that resemble the qualities of the live plant. Because of this, it has strong aromas and flavors that are

Wax is the most well-known type of concentrate. It's made by blasting plant material with a solvent using a closed-loop extraction system.



similar to the live plant. The appearance ranges in color from light amber to yellow-gold and has a moist, shiny looking appearance. Diamond Known for its distinct similarity to diamonds, THCA crystalline is a pure, refined product that is created by using solvent-based extraction

methods. THCA crystalline looks like fine powder, but when left to

Once the slurry is collected onto parchment paper, it's placed in a

full day to achieve optimal consistency. Sometimes, if certain steps in the extraction process go wrong, shatter can have a "taffy" texture. Taffy is closer to budder in its consistency and stability. Shatter



vacuum oven for purging. The shatter starts to take shape and slowly spreads across the paper and can take anywhere from 45 mins to a

<u>Shatter</u>

ranges in color from light to dark amber and is high in terpene content. High terpene profiles result in strong aroma and flavor. Distillate Distillate is a newer development and uses high tech equipment to vaporize THC and CBD within the flower. Then, it cools the vapor into collection beakers. This process is continuously repeated to create pure cannabinoids without any residual solvents or organic matter.

The process of distillation leaves little terpene content. However,

terpenes are often re-added to create specialized flavors.



aromas.

SOLVENTLESS EXTRACTIONS Non-solvent extraction processes typically use ice to freeze cannabis flowers to sub-zero temperatures, and then agitating the resin glands to detach from the

flower. Sometimes heat and pressure are used as an extraction method as well.

Non-solvent concentrates are considered a healthier form of concentrate due to the absence of solvents. However, all medical and legal solvent-based concentrates produced are purged and tested extensively to ensure residual

Solventless extraction processes result in products that have higher potency than solvent-based extractions. These remain popular with consumers who care about what chemicals they're ingesting. Because there are no chemicals introduced to the process, the chemical structure of the plant remains unaltered,

Kief Kief is the simplest and most traditional type of concentrate available. The process used to extract it typically involves cannabis flower filtering screens or tumblers. By rubbing the flower against the screen,

trichomes are agitated and isolated, effectively accumulating a

collection of trichomes. Anyone can extract their own kief through a three-chamber grinder, which features a screen in the bottom level to help collect the trichomes. Kief is very fine in texture and often takes on a light brown or tan coloring and mimics the flavor of the flower it came from. It can be used on top of a bowl or consumed on its own. As mentioned earlier, this form of cannabis is more potent because the majority of cannabinoids and terpenes are found in trichomes.

resulting in rich and complete terpene and cannabinoid profiles.



Live Kief Live kief is made from fresh-frozen flower. The plant was cut at

levels are in accordance.

harvest and immediately frozen to preserve all of the cannabinoids and terpenes of the live plant. After a quick liquid nitrogen bath, live kief is extracted through agitation. Live kief is known for its more potent, flavorful, and aromatic products. **Bubble Hash** Bubble hash is a non-solvent product made using ice, water, and fine micron bags to isolate the trichomes and filter out plant material and other waste. Then it is left to dry in the dark for about a week. Once dried and solidified, it's ready for use. Producing bubble hash is debatably the safest extraction technique known to man.

Producing rosin involves the use of high heat and high pressure on bubble hash to isolate the resin from trichome heads to create a solid form of resin. Rosin is debatably the easiest and safest way to make concentrates. Rosin is one of the only types of concentrate that is a direct reflection of the starting material used. That means without

exceptional starting material, it's impossible to make high-quality rosin.

The key difference with live rosin is that the starting plant material is

similar to the terpene profile of the live plant it was extracted from.



10,000 BC

not cured before the trichomes are harvested. Live, fresh frozen plant material is used to make the bubble hash starting material. Then heat and pressure are applied. Because there are more terpenes involved with fresh plant matter, it creates a final product that exudes flavor

Live Rosin

Rosin

HASHISH: **US INTELLIGENCE USAGE:** The OG cannabis concentrate. According to declassified Use dates back to 10,000 BC in documents, the Office of China. Made by gathering an Strategic Services, or OSS accumulation of kief or resin. (the precursor to the CIA), developed hash oil concentrate to aid interrogation of war

1943

criminals. The liquid

produce the most immediate results.

The precursor to dabs, hot

where a small bit of wax

knifing is the method

is placed on a red hot knife and the resulting vapors are subsequently

concentrate was injected into tobacco cigarettes, as inhalation seemed to

1977 **DIY HASH OIL:**

hash oil production using

2000's -2009: High-quality solvent-based hash oils became popular. By 2010, hash oil products made

their debut at the High Times

thereafter, dispensaries were

versions of budders, saps, and

waxes at a much more fervent

beginning to carry early

separate and extract THC.

2013

inhaled.

1950's

HOT-KNIFING:

Rick Simpson develops his own concoction of THC concentrates called Rick Simpson Oil (RSO) and applies it to the cancerous spots on his face and neck. According to Simpson, the spots healed within a few days.

2019: Vape pens become the center of controversy due to a string of acute lung

illnesses and deaths that

occurred from vaping.

Mid 2010's **VAPORIZING & DABBING:** As consumption gained popularity, the invention of delivery continued to improve. Dab rigs were developed to efficiently consume concentrates. As the act of dabbing can be overly complicated, vaporizers and vape pens became another viable

option as they are

discreet.

All Rights Reserved Veriheal Inc.

www.veriheal.com

After a solvent has passed through the flower and collected the cannabinoids,

properly form, large crystals appear. Consuming pure THCA is a different high than most because it is incredibly potent and there is little to no terpene content. THCA diamonds are usually mixed with high-terpene concentrates to form "sauce".

<u>Pie Crust/ Honeycomb</u> Much like shatter production, the slurry for pie crust/honeycomb is collected onto parchment paper and placed into a vacuum oven for purging. After, the concentrate patty is pressed. This turns it from a shiny shatter looking substance to more of a cookie crumble, honeycomb look. It has an amber appearance with strong flavors and