
NANOVAPOR
Faster. Safer. Greener.
NANOVAPOR™
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NANOVAPOR
TANKSAFE
JULY 2021

NANOVAPOR™

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VAPOR SUPPRESSION SYSTEM

The NanoVapor™ Vapor Suppression System rapidly suppresses harmful and potentially explosive storage tank Volatile Organic Compounds (VOCs), leaving breathable air for safe cleaning, inspection, maintenance, or removal.

SAFER & FASTER TANK DEGASSING | CLEANER VOC MANAGEMENT

SAFER, FASTER, CLEANER
VOC MANAGEMENT

When performing cleaning, maintenance, inspection, or removal the tank must be opened and sometimes entered. Even after the tank has been drained, hazardous and explosive vapors remain which escape into the atmosphere and create an unsafe work environment for human entry.

The NanoVapor™ system rapidly degasses the tank and improves air quality so service personnel can safely work in a non-explosion, non-toxic environment.

SAFE SUPPRESSANT

The TankSafe™ suppressant is non-toxic, non-reactive, and safe to store. The delivery unit is portable, compact, and operates using compressed air with no electrical or moving parts.

FAST ACTING

The NanoVapor™ Vapor Suppression System dramatically reduces the time needed to degas a tank – as fast as 45 minutes for a 20,000 liter tank to less than 10% LEL. A single application can be used for cold work lasting one day.

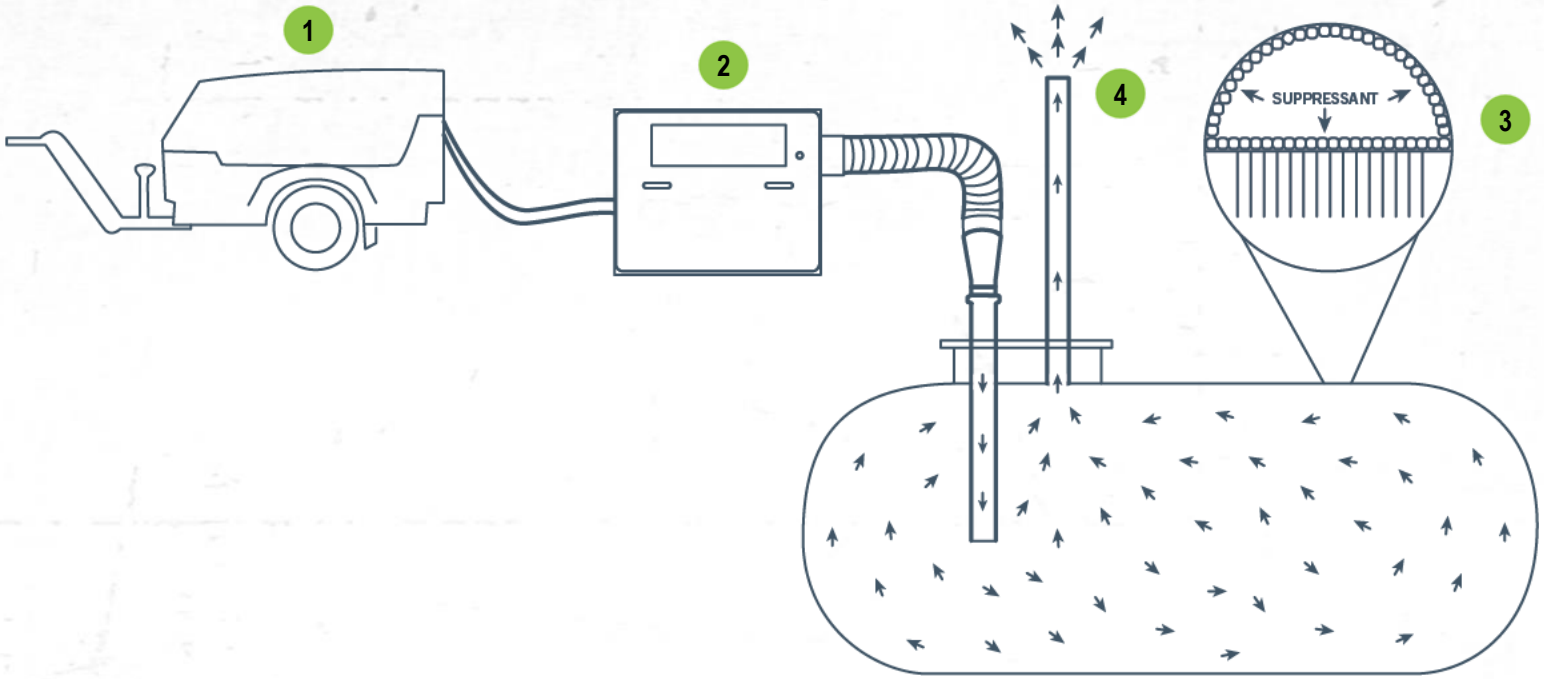
NO WASTE

TankSafe™ is derived from renewable materials, and is readily biodegradable. It leaves no residue or waste product behind, eliminating the costly cleanup and disposal of hazardous materials.

NANO VAPOR™

HOW IT WORKS

TankSafe™ Vapor Suppressant, when activated with the TankSafe™ Delivery Unit, reduces the amount of time spent reaching a safe Lower Explosive Limit (LEL), increases the amount of time that Volatile Organic Compounds (VOC)s stay suppressed, and produces no hazardous by-products.



1. AIR COMPRESSOR

A portable jobsite twin-tool air compressor is used to generate the air that safely powers the system.

2. DELIVERY UNIT

The non-toxic TankSafe™ Vapor Suppressant Solution is activated within the TankSafe™ Delivery Unit.

3. MOLECULAR BARRIER

TankSafe™ forms an effective VOC barrier at a molecular level, stopping VOC formation and lowering the LEL to safe levels.

4. VENT STACK

Harmful VOCs are safely vented out of the 12’ vent stack, so work can be safely performed.

ONSITE SAFETY &
ENVIRONMENTAL SECURITY

A SAFE ALTERNATIVE

Simple air purging can take several days before a tank reaches safe LEL/VOC levels and spread noxious and dangerous fuel vapors into the air in the immediate vicinity. This can create a significant health and safety hazard. The NanoVapor™ system greatly reduces the risk and exposure levels.

REDUCE ONSITE EXPOSURE

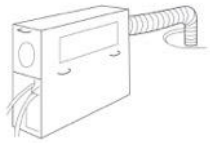
The NanoVapor™ suppression system suppresses harmful VOCs but leaves behind breathable atmosphere, reducing risk of asphyxiation and explosion. Faster suppression times reduce overall on-site exposure and promote worker safety.

SUSTAINABILITY

The NanoVapor™ Vapor Suppression System reduces the overall VOCs released into the atmosphere, and does not produce a waste product, unlike conventional methods like nitrogen gas tank inerting and water-filling which produce waste that must be processed separately.

NANOVAPOR™

SIMPLE OPERATION, MINIMAL DOWNTIME



SIMPLE TO OPERATE

TankSafe™ is simply loaded into the Delivery Unit, which is attached by an appropriate adapter to the enclosed space, and blown into the space utilizing compressed air. A separate vent in the enclosed space is opened to allow the unwanted air to escape.

PORTABLE

Weighing in at under 100 pounds, the TankSafe™ Delivery Unit features a durable aluminum plate, steel frame construction, and reinforced handles making it easy to transport from job to job.

COST SAVINGS

The significant time saved compared to conventional nitrogen gas or water-filling methods improves overall efficiency and reduces site downtime to keep business flowing, while also eliminating the costs of hazardous material disposal.

TANKSAFE™
VAPOR SUPPRESSANT

TankSafe™, when activated with the TankSafe™ Delivery Unit, reduces the amount of time spent reaching a safe Lower Explosive Limit (LEL), increases the amount of time that VOCs stay suppressed, and produces no hazardous by-products.

- Stops organic evaporation through complex molecular action that rapidly reduces vapor concentrations to safe levels.
- Forms a molecular barrier suppressing fuel vapors so personnel can safely perform facility upgrades, piping repairs, gasket replacement, and other hot/cold work that otherwise could ignite the highly flammable fuel vapors.
- Available in 5-liter containers – less than one ounce of active molecular suppressant ingredient is needed to degas 100 m^3 of tank volume.

SPECIFICATIONS

- Aqueous surfactant solution.
- Non-reactive, non-toxic, readily biodegradable.
- Water-soluble, fuel-soluble, and does not affect fuel quality.

TANKSAFE™
DELIVERY UNIT

COMPONENTS

1. Outlet
2. Inlet
3. Lifting handles
4. View port
5. TankSafe™ product connection
6. TankSafe™ pick up tube
7. Compressed air connections
8. Air filters
9. Air valves
10. Nozzle
11. Earthing wire

SPECIFICATIONS

- 100 lbs (45kg) | 14" x 32" x 48" (36 cm x 81 cm x 122 cm)
- Compressed air driven by twin-tool compressor
- Max pressure 150 PSI
- ATEX Zone 2, CE marked