



## Typical Properties

<b>Chemical Name</b>	1,1,1,3,3 Pentafluorobutane, HFC 365
<b>Chemical Formula</b>	CF <sub>3</sub> -CH <sub>2</sub> -CF <sub>2</sub> -CH <sub>3</sub>
<b>Molecular Weight</b>	148.09
<b>Boiling Point °C</b>	40.2
<b>Freezing Point °C</b>	-35
<b>Density @ 25 °C (kg/cm<sup>3</sup>)</b>	1.26
<b>Vapor Pressure (kPa @ 25 °C)</b>	53
<b>Solubility of water 20 °C</b>	0.09%
<b>Solubility in water at 20 °C</b>	0.50%
<b>Flash Point °C</b>	< -27
<b>Kauri-Butanol Value</b>	13
<b>Flammable</b>	Yes
<b>Flammability Limits in Air, % by vol.</b>	
<b>LEL:</b>	3.6
<b>UEL:</b>	13.3
<b>Autoignition Temperature °C</b>	580

**Solkane 365**  
is available in 55 gallon drums.

## Properties & Characteristics

Solkane® 365 is a perfect “Team Player”. It is miscible with a wide range of organic solvents making it a suitable cosolvent for many applications. Solkane® 365 is a hydrofluorocarbon solvent used in electronic cleaners, mold releases, vapor degreasers, and dry cleaning applications. Its unique properties and moderate cost make it an excellent candidate for blending and liquid formulations:

- Fast Evaporation
- Generally Plastic Safe
- Low Flammability
- Low Residue
- Good Solvent for Fluorofluids

Solkane® 365 can be used as a primary solvent in applications where some flammability is acceptable. The degree of flammability can be controlled by the choice of cosolvents and propellants.

Solkane® 365 is not classified by the EPA as a VOC. It can be used to reduce the overall VOC content of a formulation in all states but California.



## Applications

- *Solkane® 365 has been effectively used in electronic cleaning and vapor degreasing applications. It can be blended with HFC 4310, Petroleum Solvents, Alcohols, Ketones, Esters, and 1,2 trans dichloroethylene to increase its range of applications.*
- *When blended with other more costly solvents the Solkane® 365 will moderate the unit cost while still providing fast evaporation, low residue, low odor, and good plastic safe characteristics.*
- *When blended with higher solvency chemicals, Solkane® 365 will reduce the aggressive nature of these solvents, and will maintain evaporation rates to prevent damage to more delicate substrates.*
- *In all states but California, Solkane® 365 can help formulators meet VOC regulations without introducing slow solvents or solvents with high odor or solvency.*

## Environmental

Solkane® 365 has a favorable environmental profile:

**Ozone Depleting:** No  
**Global Warmer:** 890  
**VOC:** NO

**EPA Snap Approved:** Yes  
**Hazardous Air Pollutant:** NO  
**Prop 65 Chemical:** NO  
**Carcinogen or suspected Carcinogen:** NO

HFC-365mfc has a zero ODP coefficient and a GWP value in the same range as the one of HCFC-141b. As its POCP coefficient is low, its impact on smog creation is small, contrary to alternative not-in-kind technologies based on hydrocarbons. The US EPA listed 365mfc under the significant New Alternatives Program (SNAP) as an alternative to ozone depleting solvents.

## Health Hazards

Long term evaluation of Solkane® 365mfc has been finished and showed no toxicity concern, even less effect than HCFC 141b. Based on these encouraging results, the registration of the product has been done in Europe. Solkane® 365mfc is registered in ELINCS under the number 430-250-1.

The average exposure limit for HFC 365mfc will be comparable if not higher than that of HFC 141b (500 ppm). All results available up to date indicate the product to be safe for a broad range of industrial applications when the recommended standard hygiene practices and safety rules are observed.

Hazardous Material  
Information System

HMIS®	
<b>HEALTH</b>	0
<b>FLAMMABILITY</b>	4
<b>PHYSICAL HAZARD</b>	1
PERSONAL PROTECTION	