

SupraSolv^{TM/MC}

ultra-low VOC alternative to Acetone & MEK

SupraSolv is a high-performance, ready-to-use general purpose cleaner & degreaser that can also be used by chemists seeking to create safer, yet effective new, or replacement formulations.



A Few Applications:

- Hard surface cleaning
- Precision cleaning
- Cleaning paints, inks, adhesives
- Lubricating greases and oils
- As a component in other formulations

Some SupraSolv Advantages:

- Ideal for cleaning & preparing surfaces prior to painting
- Leaves no surface residue
- Evaporates quickly
- High purity
- Biodegradable

Environmental Performance:

- Benzene-free
- Non-carcinogenic
- Hazardous Air Pollutants free
- No ozone creating or depleting chemicals
- Ultra-low VOC
- Easy to distill and recycle
- Safer for workers & our planet

SupraSolv's formulation is deemed Zero-VOC in 49 states and parts of California because it only contains materials listed by the EPA in section 40 CFR 51.100(s) index in the United States.

It contributes zero VOCs to the final product when used as part of / an additive to another formulation.

The **SupraSolv** formulation exhibits a very low Maximum Incremental Reactivity (MIR) value as calculated by the California Air Resources Board (CARB).

SupraSolv's formulation is composed of exempt solvents listed by the Canadian Environmental Protection Act (CEPA) Schedules 1, and the National Pollutant Release Inventory (NPRI) in Canada.



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Physical/Chemical Characteristics

Upper Explosive Limit (UEL %)	15.22
Lower Explosive Limit (LEL %)	3.31
Auto Ignition Temp (°C)	455.8 (852.4 °f)
Flashpoint (°C)	4.5 (40.1 °F)
Average Molecular Weight (g/mol)	77.93
Initial Boiling Point (°C)	62 (143.6 °f)
Melting Point (°C)	-72.3 (-98.1 °F)
Density (g/ml @ 25 °C)	0.97 (8.10 lb/gal)
Viscosity (cP@ 25 °C)	0.89
Surface Tension (dynes/cm)	25.1
Specific Gravity	0.97
Solubility in H ₂ O (g/ml @ 25 °C)	0.216
Evaporation Rate (n-Butyl Acetate = 1)	5.35
Vapour Pressure (mm Hg @ 20 °C)	140.25
Vapour Density (mm Hg Air =1)	2.73
Kauri Butanol (Kb) Value	54.7
Maximum Incremental Reactivity (MIR)	0.065
Purity (Wt% Min)	99.5%
Water Content (ppm)	<320
Colour (Alpha, max)	10 (Clear)
Volatility (%)	100
Heat of Combustion (btu/lb)	8583.8
(kcal/kg)	4771.3
Heat of Vapourization (btu/lb)	175.6
(kcal/kg)	97.8
(kJ/mol)	31.9
Specific Heat Capacity (J g ⁻¹ K ⁻¹)	2.0
Molar Heat Capacity (J mol ⁻¹ K ⁻¹)	157.8
VOE (g/L) (ASTM 313-91)	2.82 *
Global Warming Potential (100 year GWP)	0
Hansen solubility parameters, total MPa ^{1/2}	18.69
6D (dispersion)	15.5
6P (polar)	6.34
6H (hydrogen bonding)	8.13

* SupraSolv is blend of VOC-exempt solvents and is therefore considered Zero VOC by the EPA. SupraSol formulation is considered Ultralow VOCin SCAQMD.

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	Acetone	MEK	SupraSolv
Effective Hard Surface Cleaner	Yes	Yes	Yes
voe-compliant	Yes	No 800 grams / litre of voe	Yes
Boeing 5750* Certified *Solvent cleaning	Yes	Yes	Yes
Recyclable	Yes	Yes	Yes
Hazardous Waste	EPA F-003 listed	EPA F-005 listed	Components not listed on EPA F-001 to EPA F-005 Hazardous Waste Lists
Disposal costs	Increased disposal costs - up to 2 times more expensive	Increased disposal costs - up to 2 times more expensive	Classed as Hazardous Waste for transportation purposes
Documentation	Increased documentation requirements for hazardous waste	Increased documentation requirements for hazardous waste	
A Ketone Solvent	Yes	Yes	No
Chronic Health Risks	Documented potential impacts include: <ul style="list-style-type: none"> Central nervous system depression Hearing loss Reproductive health damage 	  Documented potential impacts include: <ul style="list-style-type: none"> Severe irritant Difficulty breathing Serious eye irritation Heart problems High blood sugar levels Headache, dizziness, tiredness 	No known chronic health effects. Standard PPE recommended
Flash point	-4°F Extremely Flammable <ul style="list-style-type: none"> Increased risk of fire Increased insurance costs increased storage and transportation costs 	5.8°F Flammable <ul style="list-style-type: none"> Increased risk of fire Increased insurance costs Increased storage and transportation costs 	40.1°F Flammable
	<ul style="list-style-type: none"> The temperature at which a particular organic compound gives off sufficient vapor to ignite in air 		