

RE-ENTRY® Prepsolv

Description

RE-ENTRY Prepsolv is a premium, ultra-low residue, terpene solvent designed for hand-wipe cleaning applications. It has exceptional solvency, and leaves no surface residue upon evaporation.

RE-ENTRY Prepsolv is a very high purity *d*-limonene solvent. It is biodegradable, made from 100% citrus terpenes, and is the highest quality precision limonene solvent available.

Applications

RE-ENTRY Prepsolv, because it evaporates completely leaving no residue, is ideally suited for hand-wipe applications. Water or solvent rinsing is not required (although solvent rinsing may be employed in some applications). Typical applications include:

- precision hand-wipe
- pre-paint cleaning
- pre-bond cleaning
- cleaning before sealant application
- fine metal degreasing
- circuit board defluxing

Use

RE-ENTRY Prepsolv is an excellent drop-in replacement for ozone-depleting hand-wipe cleaning agents like 1,1,1-trichloroethane. It is also a good replacement for toxic VOC and HAP solvents like MEK and MIBK in similar applications. Because the vapor pressure is low, evaporation is minimized and VOC emissions are decreased when used in immersion applications.

Solvency

RE-ENTRY Prepsolv has exceptional solvency for most non-polar industrial soils. Estimated Hansen solubility parameters are:

δd (non-polar)	8.6
δp (polar)	1.0
δh (hydrogen bonding)	1.0

Table I. RE-ENTRY Prepsolv Physical Characteristics

Appearance	Clear liquid	Odor	Citrus
Color	Light yellow	pH of Water Solution	Insoluble
Density (lb/gal @ 25°C)	7.0	Specific Gravity (25°C)	0.84
Evaporation Rate (n-BuAC=1.0)	0.21	Volatiles, % by Volume	100 (nonvolatile residue <1 ppm)
Freezing Point (°F)	< -100	Vapor Density (air=1.0)	4.5
Initial Boiling Point	340°F (171°C)	Vapor Pressure (mmHg @ 20°C)	1.5

Compatibility

RE-ENTRY Prepsolv is compatible with virtually all metals. However, it is generally not compatible with rubbers and only partially compatible with plastics as illustrated below.

Table II. Effects of RE-ENTRY Prepsolv on Plastics**1 Week Exposure at 25°C**

<i>Elastomer</i>	<i>Rating</i>	<i>Elastomer</i>	<i>Rating</i>	<i>Elastomer</i>	<i>Rating</i>
ABS	G	Nylon	E	Polyurethane	N
Buna N	F	PETE	G	PTFE	E
CPVC	G	Polycarbonate	F	PVC	G
Delrin	E	HDPE	G	Silicone	F
Latex	N	LDPE	F	Teflon	E
Natural Rubber	N	Polypropylene	G	Viton	G
Neoprene	N	Polystyrene	N		

Key to Ratings:

E - No damage.

G - Little damage.

F - Some effect. Plastics may experience cracking, crazing, loss of strength or discoloration. Elastomers may experience softening, swelling and loss of strength. Metals may experience visible signs of corrosion.

N - Not recommended for continuous use. Immediate damage may occur. Severe cracking, crazing, loss of strength, discoloration, dissolution or permeation loss may occur.

Environmental Data	Biodegradability	100% - 28 days
	BOD (complete, 28 day)	3.2 mg O ₂ /mg
	COD	3.2 mg O ₂ /mg
	TOD	3.2 mg O ₂ /mg
	Ozone Depletion Potential	0
	VOC Content, grams/liter	838 (100%)
	RCRA Hazard Class	Combustible
	EPA Hazardous Air Pollutants	Not listed
Safety Data	NFPA Rating	Health - 1 Flammability - 2 Reactivity - 0
	Flash Point (Pensky-Martens Closed Cup)	122°F (50°C)
	Autoignition Temp	458°F (236°C)
	Flammability Limits in Air	Lower 0.7% @ 150°C Upper 6.1% @ 262°C

Packaging RE-ENTRY Prepsolv is available in commercial quantities and shipped in 1-gallon, 5-gallon and 55-gallon containers.

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