

Table 5.4.2 F: Assessment Summary for Vapor Degreasing Drop-In Alternatives

Assessment Criteria		PCE reference	NPB	VMS ¹	HFC1	HFC2
Technical Criteria	Vapor Pressure	15.8 mm Hg	-	-	-	-
	Latent Heat	50.1 cal/g	-	-	+	+
	Boiling Point	121 °C	+	+	+	+
	Flash Point	None	=	-	=	=
	Surface tension	32.3 dyne/cm	+	+	+	+
	KB value	90	+	+	-	-
	Performance	Effective	=	=	=	=
Financial Criteria	Purchase	\$4.31/gallon	-	-	-	-
	Energy ²		+	=	+	+
Environmental Criteria	Water	60 days	+	+	-	-
	Soil	120 days	+	+	-	-
	Sediment	540 days	+	+	-	-
	Air	98 days	+	+	-	-
	BCF	83	+	-	-	-
Human Health Criteria	Exposure limits	100 ppm PEL; 25 ppm TLV	-	+	?	?
	Dermal/Oral/Respiratory	Irritant	=	=	=	=
	Mutagenicity	No	?	?	=	=
	Carcinogenicity	2A	?	?	+	+
	Rep/Develop	No	?	?	=	=
Other Criteria	Flammability	Nonflammable	-/=	-	=	=

Assessment Criteria		PCE reference	NPB	VMS ¹	HFC1	HFC2
	Reactivity	Non reactive	=	=	-	-
	Corrosivity	Non corrosive	=	=	=	?

Comparison Key

+ Better = Similar - Worse ? Unknown

¹ Not for open top vapor degreasing

² Energy Savings based on latent heat requirements and boiling point.