CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	11/05/2008
Experimenters:	Jason Marshall
ClientType:	Wire & Cable Mfr
ProjectNumber:	Project #2
Substrates:	Liquid
PartType:	Part
Contaminants:	Plastic
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Tactile
Purpose:	To identify possible cleaning product for PVC removal.
Experimental Procedure:	Ten products were selected from the lab's on-line database, www.cleanersolutions.org, based on client supplied information and past testing results. Six products were diluted to recommended concentrations using DI water. The remaining four products were used at full strength. The supplied PVC tubing was cut into 2-3 inch pieces and immersed into each solution at room temperature. Observations were made at 20 minute intervals for the first hour, than at 2 hours and 4 hours total immersion time.
Results:	Successful products were determined by touching/squeezing the tubing after each interval. If there was any surface change, the product was considered to be successful. Observations for each product at each interval are listed below.

Cleaner	Time	Observation
Spartan	20 min	Some surface change
	40 min	Same
	60 min	No change
	120 min	No change
	240 min	No Change
Pioneer Eclipse	20 min	No Change
	40 min	No Change
	60 min	No Change
	120 min	No Change
	240 min	No Change
Rochester Midland	20 min	No Change
	40 min	No Change
	60 min	No Change
	120 min	No Change
	240 min	No Change
Micro 90	20 min	No Change
	40 min	No Change
	60 min	No Change
	120 min	No Change
	240 min	No Change
Inproclean 3800	20 min	No Change
	40 min	No Change
	60 min	No Change
	120 min	No Change
		No Change

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	240 min	
SC 1000	20 min	No Change
	40 min	Slightly softer
	60 min	No Change
	120 min	No Change
	240 min	No Change
SC Soy Ester	20 min	No Change
	40 min	Slightly softer
	60 min	No Change
	120 min	No Change
	240 min	No Change
Bean-e-doo	20 min	No Change
	40 min	No Change
	60 min	No Change
	120 min	Some deformation of tubing
	240 min	No Change
DBE-6	20 min	Change in surface texture
	40 min	Softer
	60 min	Deformation
	120 min	Easier to deform
	240 min	Very soft
Smart Solve 605	20 min	No change
	40 min	No change
	60 min	Some deformation
	120 min	A little more deformation
	240 min	No change

Summary:

Substrates:	Liquid
Contaminants:	Plastic

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Spartan Chemical Company	Green Solutions Floor Stripper	33	0.00	☑	
Pioneer Eclipse	Enviro Star Green Glass & Surface Cleaner	25	0.00	☐	
Rochester Midland Corporation	EnviroCare Floor Stripper	33	0.00	☐	
International Products Corporation	Micro 90 Conc.	20	0.00	☐	
Oakite Products	Inproclean 3800	20	0.00	☐	
Gemtek Products	SC 1000 Aqueous Cleaner Concentrate	20	0.00	☑	
Gemtek Products	SC Soyester	100	0.00	☑	
Franmar Chemical	Bean-e-doo (Parts Washer Solvent)	100	0.00	☑	
Invista S.a.r.l	Flexisolv DBE 6 ester	100	0.00	☑	
United Laboratories International	Smart Solve 605	100	0.00	☑	

Conclusion: The six products that showed some signs of softening the PVC tubing will be retested at an elevated temperature.