

Chemical Compatibility for Common Containers

Excerpted from Table C.1 (Annex C) of Singapore Standard CP 100: 2004 Code of Practice on Hazardous Waste Management

Hazardous waste type	Material of containers or inner liner							
	Plastic				Steel			
					Mild	Stainless steel		
	HDPE	PP	PVC	Teflon	Carbon Steel	304	316	440
Acid (non-oxidizing) e.g. boric acid, hydrochloric acid	R	R	A	R	N	*	*	*
Acid (oxidising) e.g. nitric acid	R	N	N	R	N	R	R	*
Alkali	R	R	A	R	N	R	*	R
Chromium or non-chromium oxidising agent	R	A*	A*	R	N	A	A	*
Cyanide waste	R	R	R	*	N	N	N	N
Halogenated or non-halogenated solvent	*	N	N	*	A*	A	A	A
Lubricating oil	R	A*	A*	R	R	R	R	R
Metal salt solution	R	A*	A*	R	A*	A*	A*	A*
Metal sludge	R	R	R	R	R	*	R	*
Mixed organic compound	A	N	N	A	R	R	R	R
Oily waste	R	N	N	R	A*	R	R	R
Organic sludge	R	N	N	R	R	*	R	*
Paint waste (solvent base)	R	N	N	R	R	R	R	R
Phenol & its derivative	R	A*	A*	R	N	A*	A*	A*
Polymerisation precursor and production waste	R	N	N	*	R	*	*	*
Tannery waste (chrome tanning solution)	R	R	R	R	N	*	R	*
Waste catalyst	R	*	*	A*	A*	A*	A*	A*

*: Varying nature of chemicals in category. Refer to MSDS.

A: Acceptable

N: Not recommended

R: Recommended

HDPE: High density polyethylene

PP: Polypropylene

PVC: Polyvinylchloride