

SOYSOLV®

INDUSTRIAL CLEANERS

6154 N CR 33 TIFFIN OH 44883
PHONE: 800-231-4274 FAX: 419-992-4595
E-MAIL: sales@soysolv.com http://www.soysolv.com

Compatibilities of **CORNSOLV**

Compatibilities of **CORNSOLV** with several substrates were tested in laboratory experiments. The results can be considered a guideline, however, it is essential to always test compatibility if the exposed material cannot be found in the following tables.

The degree of compatibility of a material is categorized by exposure time:

- Visible attack within 1 hour
- Visible attack within 8 hours
- No visible attack after 24 hours
- Approved for permanent exposure

In the table below, an overview of each of the first three categories is presented for composite materials.

Composite Materials

No visible attack after 24 hours	Visible attack within 8 hours	Visible attack within 1 hour
Nylon®	Buna-B-rubber	PVC
Teflon®	Viton®	Polycarbonate
PVDF	Silicone	ABS
Aflas®	EPDM	Tygone® (special)
Kalrez®	Choropren rubber	C-flex®
polyethylene	Epoxy amide	Pharmed®
polypropylene		Norprene®
oil free EPDM		Polystyrene
Latex natural rubber gloves		Polysulphate
		Neoprene® gloves
		Polyamide
		Polyurethane paints
		Vinyl gloves

Materials in the last column are affected directly upon exposure, therefore, cleaning with **CORNSOLV** is not advisable. The materials mentioned in the middle column can be cleaned with **CORNSOLV** but should not be exposed to the solvent permanently. For the materials in the left column, there are no restrictions.

(over)

Metals

Approved for permanent exposure	Slight corrosive or etching
stainless steel	cartridge brass
aluminum	solder (Sb5, Sn95)
carbon steel	Iron-Cobalt-Vanadium alloy
magnesium alloy A291a	silver plated copper, SPC
(tin plated) copper	TPC soldered with Sn63/Sb5
leaded brass	SPC soldered with Sn63
tin plated brass	
Nickel	
beryllium copper	

All metals can be cleaned with **CORNSOLV** without the risk of corrosion or other forms of attack. Only in case of exposure to the lactate for long periods of time and in old cleaning baths, it is theoretically possible that some corrosion may occur to the metals/alloys mentioned in the right column. The reason for this is that moisture from the air is absorbed by the bath and causes some acid formation. The conclusion is that the metals/alloys mentioned in the right hand column can be cleaned without any risk of corrosion, but long term exposure in old and dirty cleaning baths may lead to some corrosion.

The above tables contain the results of studies carried out by the Research Triangle Institute (RTI) in Research Triangle, NC and Litton Polyscientific in Blacksburg, VA.

APPROVED FOR PERMANENT EXPOSURE

Recommended Construction Materials

For processing and cleaning equipment or storage tanks and packaging containing **CORNSOLV**, the following construction materials are compatible:

- Carbon and stainless steel (any grade)
- Polyethylene
- Polypropylene
- Teflon®

Recommended Sealing Materials

Teflon and oil free EPDM are recommended materials for washer, O-rings and gaskets. Do not use materials mentioned in the first table that have shown visual signs of attack within 24 hours, such as Viton® and Buna-B rubber. All other materials require testing.