



CHEMICAL COMPATIBILITY

As with all potentially hazardous materials, necessary precautions must be followed to assure the safety of the user. This may include ancillary equipment, personal protective equipment, training and constant monitoring of leak after deployment of unit.

The RuptureSeal™ unit should never be considered a permanent solution to a leak or rupture.

Refer to manufacturers MSDS for complete information regarding handling, clean-up and proper disposal of all hazardous materials.

NAME	CAS #	Seal Time Limit	COMMENTS	
Benzene	71-43-2	10 Hours		
Carbon Tetrachloride	56-23-5	10 Hours		
Chloroform	67-66-3	10 Hours		
Cyclohexane	110-82-7	10 Hours		
Diesel Fuel	68476-34-6	10 Hours		
Diethyl Ether	60-29-7	10 Hours		
Heptane	142-82-5	10 Hours		
Hexane	110-54-3	10 Hours		
Kerosene	8008-20-6	10 Hours		
Methylene Chloride	75-09-2	10 Hours		
Motor Oil	N/A	10 Hours		
Pentane	109-66-0	10 Hours	May dissolve some plastics	
Toluene	1330-20-7	10 Hours		
Xylene	108-88-3	10 Hours		
Pyridine	110-86-1	1 hour		
Acetone	67-64-1	10 Hours		
Acetonitrile	75-05-8	10 Hours		
Dimethylformamide (DMF)*	68-12-2	10 Hours		
Dimethyl Sulfoxide (DMSO)	67-68-5	10 Hours		
Ethanol (190 Proof)	Mixture-Ethanol/Water	10 Hours	95% 64-17-5	5% 7732-18-5
Ethyl Acetate	141-78-6	10 Hours		
Iso Propyl Acetate (IPA) 70%	Mixture-Ethanol/Water	10 Hours	70% 67-63-0	30% 7732-18-5
Methanol	67-56-1	10 Hours		
n-Propanol	71-23-8	10 Hours		
n-Butanol	71-36-3	10 Hours		
Tetrahydrofuran (THF)	109-99-9	10 Hours	May dissolve some plastics	



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NAME	CAS #	Seal Time Limit	COMMENTS
Chlorobenzene	108-90-7	10 Hours	SCBA
Cyclohexanol	108-93-0	10 Hours	
Dioxane	123-91-1	10 Hours	SCBA
Dichloroethane	107-06-2	10 Hours	SCBA
Ethyl Ether	60-29-7	10 Hours	
Ethylene Glycol	107-21-1	10 Hours	
Glycerin	56-81-5	10 Hours	SCBA
HPMA	680-31-9	10 Hours	
HMPT	1608-26-0	10 Hours	SCBA
Iso-Butanol	78-83-1	10 Hours	
MTBE	1634-04-4	10 Hours	SCBA
MEK	78-93-3	10 Hours	SCBA
Mineral Spirits	8052-41-3	10 Hours	
VM +P Naptha	8032-32-4	10 Hours	
Solvent 140	64742-88-7	10 Hours	SCBA
Acetic Acid *	64-19-7	10 hours	pH 3.2
Formic Acid (88%)**	64-18-6	0.75 hour	pH 2.3
Hydrochloric Acid**	Hydrogen Chloride/Water 7647-01-0/ 7732-18-5	1 hour	20-38% Hydrogen Chloride 62-80% water
Nitric Acid (65%***)	Nitric Acid/ Water 7697-37-2/ 7732-18-5	CAN NOT BE USED	65% Nitric Acid 35% Water
Phosphoric Acid(85%)*	Phosphoric Acid/Water 7664-38-2/ 7732-18-5	10 hours	85-88% Phosphoric 12-15% Water
Sulfuric Acid**	7764-93-9	1 hour	Concentration dependent, pH 1.0-2.0
Octanoic Acid*	124-07-2	10 hours	pH 4.0

*Had little to no effect on the components of the unit.

**Had partial effect on the components, reducing units holding time.

*** Had severe reaction with unit, holding time greatly reduced, use not recommended. Performance of the RS-2™ RuptureSeal™ on acid leaks will vary dependent on the type and strength of the acid involved. Generally, acids with a pKa value similar to acetic acid (4.75) (pH 3.4) should be safe to use with the RS-2™ seal. The sealing time capabilities of the unit will be reduced with stronger acids. If it is necessary to increase sealing times beyond the products capability, it is recommended that you have multiple RuptureSeal™ kits on hand and replace as time dictates until the leak can be fully contained.