



JUST in case

Acids in Safebreak bottles



IT MIGHT HAPPEN... EVERY DAY!

Glass bottles are still the preferred packaging options for acids. That's because they are inert and offer a long shelf life. A clear disadvantage of glass is that it can break. Despite careful handling, accidents can happen in any laboratory.

How harmful a breakage is depends on the circumstances. Most times all that is required is proper clearing up of the spilled contents and glass splinters. However, more serious cases may result in injury, contamination or consequential damage.



WE HAVE THE SOLUTION

At Merck, we have carefully examined the risks involved with acids in glass bottles and have come up with an effective solution that offers multiple benefits: **the »Safebreak« bottle.**

This unique glass bottle is coated with polyethylene (PE) for maximum protection. Should the bottle fall and break, all liquid and glass splinters are reliably contained within the PE coating.

What's more, each Safebreak bottle is fitted with our exclusive S40 screw cap. Made of polypropylene with an integrated PTFE component, the S40 cap renders the bottle absolutely airtight so that no liquid or vapor can escape. Safebreak bottles are also easy to use. Their special shape offers optimum pouring characteristics. And, they can be easily disposed of with conventional glass; the PE is burnt off during incineration without affecting the environment.



PEACE OF MIND

Exclusively from Merck: the Safebreak bottle

All our experience in dealing with the potential hazards of acids in glass bottles has been incorporated in the specifications of the Merck Safebreak bottle:

- The bottle is able to withstand considerable impact force
- Should breakage occur, the acid and any glass splinters are reliably contained
- Even after frequent opening and closing, the screw cap remains perfectly intact
- The bottle is just as recyclable as a conventional glass bottle
- Now available in various pack sizes: 0.5 L, 1 L and 2.5 L

The computer-designed Safebreak bottle combines multiple advantages in one solution:

- **Safety:** Should breakage occur, all acid and glass splinters are safely retained by the PE coating
- **Eco-friendly:** Thanks to the PE-coating, bottles can be recycled without affecting the environment
- **Long shelf life:** Same long shelf life as conventional glass bottles
- **Tightly closed:** Merck's exclusive S40 closure system
- **Convenient:** Optimum, drip-free pouring thanks to the S40 thread lip
- **Saves money:** The bottle is just as recyclable as a conventional glass bottle

Now also available in
0.5 liter and 1 liter
pack size.



Merck's Safebreak bottle offers added safety for the following acids:

Product	Pack size	Ord. No.	
Acetic acid (glacial) 100% anhydrous for analysis EMSURE® ACS,ISO,Reag. Ph Eur	0.5 L	1000630510	New
	1 L	1000631010	New
	2.5 L	1000632510	
Formic acid 98–100% for analysis EMSURE® ACS,Reag. Ph Eur	0.5 L	1002640510	New
	2.5 L	1002642510	
Hydrochloric acid fuming 37% for analysis EMSURE® ACS,ISO,Reag. Ph Eur	0.5 L	1003170510	New
	1 L	1003171010	New
	2.5 L	1003172510	
Nitric acid 65% for analysis EMSURE® ISO	0.5 L	1004560510	New
	1 L	1004561010	New
	2.5 L	1004562510	
Nitric acid 69% for analysis EMSURE® ACS, Reag. Ph Eur	0.5 L	1017990510	New
	1 L	1017991010	New
	2.5 L	1017992510	
ortho-Phosphoric acid 85% for analysis EMSURE® ACS,ISO,Reag. Ph Eur	0.5 L	1005730510	New
	2.5 L	1005732510	
Perchloric acid 70–72% for analysis EMSURE® ACS,ISO,Reag. Ph Eur	0.5 L	1005190510	New
	1 L	1005191010	New
	2.5 L	1005192510	
Sulfuric acid 95–97% for analysis (max. 0.005 ppm Hg) EMSURE® ACS,ISO,Reag. Ph Eur	0.5 L	1007320510	New
	2.5 L	1007322510	
Sulfuric acid 95–97% for analysis EMSURE® ISO	0.5 L	1007310510	New
	1 L	1007311010	New
	2.5 L	1007312510	
Sulfuric acid 98% for analysis EMSURE®	0.5 L	1120800510	New
	2.5 L	1120802510	



Conventional glass bottle

- Risk of cracks or breakage
- Risk of injury to the user
- Risk of environmental contamination



PE-coated Safebreak bottle

- Resistant to considerable impact force
- No risk of injury from spilled acid or glass splinters
- Environment protected from contamination
- Recycled with conventional glass

MerckMillipore.com/safebreak

