


Absorbents for spilled liquids

Chemizorb®





Mishaps and accidents happen. With Chemizorb[®], however, you can remove spilled aggressive or other unpleasant liquids quickly and safely. Chemizorb[®] consists of porous mineral or synthetic copolymers that are chemically inert and, depending on the type, are capable of taking up 100 to 400 percent of their own weight in liquid material.

Absorbents for spilled liquids

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■ Advantages

With Chemizorb® you can remove spilled liquids:

- Easily
- Quickly
- Safely
- Environment-friendly



www.emdmillipore.com/chemizorb

The »allrounders«

Chemizorb® powder

- Is insoluble in water and in all other media that are liquid at room temperature.
- The powder is characterized by an extremely high absorbance capacity.
- Due to its large surface area, it is capable of absorbing two to four times its own weight in aqueous solutions and one to two times its weight in organic solvents and viscous oils.



Ordering information

Chemizorb® powder	Content	Packaging	Ord. No.
Chemizorb® powder absorbent for spilled liquids	500 g	PE bottle	1.02051.0500
	25 kg	Fibre carton	1.02051.9025

Chemizorb® granules

Chemizorb® granules are insoluble in water and in all other media that are liquid at room temperature. The granules possess a slightly lower absorbance capacity than the powder: due to its rough granular form, it can absorb only up to 100 percent of its own weight; on the other hand, however, it is much easier to dose. The granule form is used in all those places where it is not suitable to use the powder form, for example in draughty rooms or outside. Just like the powder, the granules are suited for absorbing alkalis, acids, or also heating-bath liquids.



Ordering information

Chemizorb® granules	Content	Packaging	Ord. No.
Chemizorb® granules absorbent for spilled liquids	1 kg	PE bottle	1.01568.1000
	5 kg	Bucket, plastic	1.01568.5000
	20 kg	Paper sack	1.01568.9020
	20 kg	PE drum	1.01568.9021

The »all-in-one« set for mercury

Chemizorb® Mercury

Chemizorb® Mercury is an all-inclusive set of reagents and auxiliaries for the safe and complete removal of drops of mercury and of traces of elementary mercury. The reagents included in the set are sufficient for the safe and simple decontamination of an area of roughly one square meter.



Mode of use

- Any droplets of mercury are first suctioned off using the pipette.
- The contents of the pipette are then emptied into the mercury bottle.
- Any remaining mercury is then strewed with a layer of reagent 1.
- The covered area is then sprayed with reagent 2.
- After a reaction time of 15 to 30 minutes the mercury-containing absorbent is removed from the surface and put into a small tub using a small shovel and a spatula.
- Any remaining material can subsequently be simply cleaned away with a wipe.
- Afterwards all tools and working materials are stored safely in the large can.
- The mercury-containing waste material must be disposed of as special waste in accordance with the official regulations.

Ordering information

Chemizorb® Hg	Content	Packaging	Ord. No.
Chemizorb® Hg Reagents and accessories for absorbent for mercury	1 set	PE case	1.12576.0001
1 set consisting of: 500 g of reagent 1, 100 ml of reagent 2, one small tub, one large disposal can, protective gloves, ...			
Chemizorb® Hg reagents refill pack for Ord. No. 1.12576.0001	1 set	PE can	1.01569.0001
1 set consisting of: 500 g reagent 1 and 100 ml reagent 2			

The »specialists«

The absorbents for alkalis, acids, and hydrofluoric acid contain, in addition to the carrier material itself, also water-soluble neutralizers and pH indicators. The admixed pH indicators make it possible to keep track of the process of neutralization of the spilled acid or alkalis. It should be borne in mind that the neutralization reaction may involve the generation of heat and gas.

Chemizorb® Alkalis

- Is a powder mixture that consists of a mineral copolymer as the absorbent, an acidic salt as the neutralizer, and a pH indicator.
- Upon contact with the alkalis the absorbent first turns blue in colour.
- After neutralization is complete, the blue colour becomes paler.
- About 100 to 120 g of Chemizorb® OH⁻ is required to absorb and neutralize 100 ml of alkalis.



Ordering information

Chemizorb® OH ⁻	Content	Packaging	Ord. No.
Chemizorb® OH ⁻ absorbent and neutralizer for spilled alkalis, with indicator	1 kg	PE bottle	1.01596.1000

Chemizorb® Acid

- NEW: Improved composition. Now easier to use and with higher absorption capacity.
- Powder mixture that consists of a mineral copolymer as the absorbent, an alkaline neutralizer, and a pH indicator. Suitable for all acid spills (except Hydrofluoric acid)
- The neutralization process results in the release of CO₂. When the acid has been neutralized, the colour of the indicator changes from red back to yellow.
- About 100 g of Chemizorb® H⁺ is required to absorb and neutralize 100 ml of acid.



Ordering information

Chemizorb® H ⁺	Content	Packaging	Ord. No.
Chemizorb® H ⁺ absorbent and neutralizer for spilled acids, with indicator	500 g	PE bottle	1.02491.0500
	2.5 kg	Bucket, plastic	1.02491.2500

Chemizorb® Hydrofluoric Acid

- Is a powder mixture consisting of a synthetic copolymer as the absorbent, calcium salt as a neutralizer and precipitant, and a pH indicator.
- The neutralization process results in the release of CO₂. When the hydrofluoric acid has been neutralized, the colour of the indicator changes from red to orange/yellow.
- About 150 g of Chemizorb® HF is required to absorb and neutralize 100 ml of hydrofluoric acid.



Ordering information

Chemizorb® HF	Content	Packaging	Ord. No.
Chemizorb® HF absorbent and neutralizer for spilled hydrofluoric acid, with indicator	1 kg	PE bottle	1.01591.1000

Handling and disposal

- Handling** All Chemizorb® products are handled in much the same way:
- Spilled liquids are covered with a sufficient amount of absorbent and, wherever necessary, mixed using a spatula, spoon, or small shovel.
 - Wait until the neutralization and absorption processes are complete.
 - After the absorbent has been collected, the contaminated surface is cleaned thoroughly with plenty of water.
- A specific set of instructions for use is given on the label of each respective product package.

- Disposal** The contaminated material – Chemizorb® and absorbed chemicals – is collected in a polyethylene bag and forwarded for disposal in accordance with the company regulations and national guidelines for the hazardous products in question.

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose. Chemizorb® is a registered trademark of Merck KGaA, Darmstadt, Germany.

For more information on our products:
www.emdmillipore.com/chemizorb



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