

ACID NEUTRALIZING GUIDELINES

NOTE: Appropriate personal safety equipment should be utilized when treating any hazardous waste.

NOTE: This Acid Neutralizer is not recommended for use on Hydrofluoric Acid. Avoid contact with Fluorine & 2, 4, 6-Trinitrotoluene. Contact with food products containing sugars may form carbon monoxide gas.

1. Can be used to treat free-flowing spills. Can also be used as a precautionary measure, in advance of a spill occurring, e.g. as an encapsulating/neutralizing agent in an acid drip pan, referred to as a static spill.
2. Apply neutralizer from perimeter of spill inwards. Foaming will result from the addition of the neutralizer to the acid. Continue applying until the liquid is a uniform gel and color indicator has changed to neutralization. Be careful not to over neutralize. Neutralization will generate some heat and gassing off. Amounts will vary depending on the size and location of spill. Rise in temperature will be less when surface area is larger.
3. This neutralizer contains a color indicator which identifies the acidity of the spill and monitors the progression of the neutralization, as follows:

RED: Highly acidic (normally only seen with the most concentrated acids).
YELLOW: Slightly Acidic
PURPLE: Non-Acidic
4. Use sufficient neutralizer to eliminate the presence of any liquid acid and create a uniform gel. At this stage, the acid is now in a manageable format and should be removed to a controlled laboratory environment for disposal.
5. If the yellow color is still evident, carefully add small quantities of water and additional neutralizing powder to the gel. Mix thoroughly until a persistent, uniform purple color is evident.
6. Place the neutralized mixture in a suitable container and dispose in accordance with local, state & federal regulations.

NOTE: Exercise care in applying the neutralizer evenly and slowly to the spill. Rapid dumping of the neutralizer on the spill will result in encapsulation of the liquid before neutralization can be accomplished as well as create an unnecessary amount of neutralizer which may cause the resultant product to become caustic.

NEUTRALIZING SOCKS & PILLOWS

The absorbent contained in the pillows and socks will absorb more liquid than the volume of the absorbent. Thus, the pillows and socks will grow during neutralization. It is recommended that the filler in the socks & pillows be evenly spread out. If all of the absorbent goes to one end, it will still function, but it will take longer to absorb & neutralize.

2 lbs of Neutralizer, Neutralizes Approximately:

Acid	Concentration	Volume in Quarts	Concentration	Volume in Quarts	Concentration	Volume in Quarts
Sulfuric	98%	.48	50%	.8	10%	2.4
Nitric	68%	.96	40%	1.6	10%	3.2
Acetic	100%	.64	78%	.96	40%	1.6
Phosphoric	40%	.87	10%	2.4		
Hydrochloric	40%	.96	20%	1.6	10%	3.2

Application rates are for guidance only. A number of factors, such as spill volume, geometry and operator training will influence application rate.

STORE IN COOL, DRY AND WELL-VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.