

BATTERY SPILL KIT

Team 122 NASA Knights

Contents

This battery spill kit should be clearly labeled and should include the following:

- Plastic container
- Rubber gloves
- Brush
- Ziplock bags
- Chem goggles
- Paper towels
- Baking soda
- Plastic shovel

How to Identify a Spill

The acid in sealed lead-acid batteries is colorless and odorless, making an acid leak sometimes difficult to detect.

In the event of a battery spill, the following conditions may be present:

- Physical damage to the battery housing
- Signs of liquid leaking from battery
- Signs of corrosion or other chemical reaction

How to Respond to a Spill

No matter how small the leak may be, immediately do the following:

1. Warn everyone in the immediate area that there has been a spill
2. Send someone to the Pit Admin desk to contact event officials
3. Put on gloves and chem goggles
4. Pick up battery and move to hard plastic container
5. Rotate the battery so that the leak is facing up
6. Pour sodium bicarbonate (baking soda) on all spilled fluids and inside the plastic container

You will immediately notice signs of a chemical reaction, including bubbling and fizzing. When the neutralization reaction is complete,

7. Carefully collect the neutralized residue using the brush and shovel and place in ziplock bag
8. Wipe up all additional neutralized residue with paper towels and place used paper towels in ziplock bag
9. Place ziplock bag in hard plastic container with battery
10. Transfer plastic container to event officials for proper disposal

In Case of Contact

In case of contact with eyes or skin, rinse immediately with plenty of water for at least 5 minutes. Send someone to Pit Admin to get the attention of the EMTs.