

# STEPS

It is best not to bring actual or suspected munitions onboard. If munition is brought onboard and if you must handle it, you should follow these recommendations to protect yourself:



1. **Isolate:** You should keep unneeded crew members upwind and as far away as possible. The captain should steer the vessel into the wind to help minimize vapor exposure.



2. **Decide on action:** You should quickly decide if you will need to handle the munition. The longer the munition is exposed to ambient temperatures the more likely it is to leak. Beware of any leaking substances—vapors are toxic and liquids can cause burns. If crew members are not trained to properly handle munitions and how to safely wear PPE, or if you do not have the appropriate equipment, stop and request assistance from the U.S. Coast Guard on channel 16 (156.800 MHz) or by calling (800) 424-8802 or (215) 271-4960.



3. **Protect responding crew members:** Crew members who are properly trained and will approach and handle the munition should wear appropriate PPE to protect their skin from leaking liquids. PPE should be put on (donned) in the following order:

- Inner pair of gloves
- Suit
- Apron
- Face shield
- Outer pair of gloves



4. **Take action:** Crew members trained to handle munitions should jettison or secure the munition as necessary. If jettisoning the munition, using a two person team to place munition in a plastic tote and lift to gunwale. You should toss both the tote and munition overboard. If securing the munition, you should use a two person team to place the munition in a plastic tote before securing. When handling the munition, perform these actions as efficiently as possible to minimize contact.



5. **Decontaminate:** Decontaminate equipment and individuals that are potentially contaminated with liquid that leaked from the munition by physically removing the warfare chemical with soap and water. Make sure the wash solution and rinse water do not enter the vessel or come into contact with you or your coworkers. The wash solution and rinse water should be handled as hazardous waste and disposed of in accordance with applicable standards. Follow your company's policy regarding how to determine when equipment is properly decontaminated.

o Equipment: Wash and rinse contaminated surfaces with soap and water (using cold or warm water).

o People: If you or a coworker are exposed to liquid from the munition, remove all clothing and place into sealed plastic bags. Thoroughly wash and rinse the contaminated skin using a soap and water solution. You should wash the individual starting at their head and working your way down to their toes. Rinse the individual's eyes with clean water for at least 20 minutes. Be careful not to scratch or break the skin and cover all open wounds. Cover the individual to prevent shock and loss of body heat. Exposed individuals should seek immediate medical attention.



6. **Remove PPE:** After handling the munition and decontaminating surfaces, remove PPE and place into sealed plastic bags. When removing PPE, the outer surface should be treated as potentially contaminated and care should be taken to not touch the outside surface, roll PPE downward, and avoid pulling PPE off over the head. Remove (doff) the PPE in the following order:

- Outer pair of gloves
- Apron
- Face shield
- Suit
- Inner pair of gloves

PPE should be disposed of in accordance with applicable standards.



7. **Alert:** Notify the U.S. Coast Guard on channel 16 (156.800 MHz) or by calling (800) 424-8802 or (215) 271-4960.



8. **Look:** Look for symptoms. Symptoms can happen right away or up to 48 hours after exposure. Symptoms include sudden weakness, burning eyes, skin blisters, trouble breathing, redness, and burning skin. If you suspect you were exposed, go to the emergency room.



9. **Protect the public:** Follow your company's policy regarding the catch. Fishing vessels that have come into contact with chemical agents must not bring their catch ashore until it has been checked and released by the appropriate state's department of environmental health. Sea life contaminated by chemicals is unsuitable for human or animal consumption.

## Example of Burns and Blisters from Mustard Exposure

