Technological hazards Self-protection



When a technological or biological hazard happens, take the following actions:

TIME



Spend the shortest amount of time in contaminated areas

DISTANCE



Take greater distance from the source of harm and contamination

Be prepared!

SHIELDING



Maintain significant physical barriers and shielding

Technological hazards Personal Protective Equipment (PPE)



OBJECTIVE



To prevent exposure to **fectious** material.

TYPES

Face shields, gloves, goggles, glasses, gowns, head covers, masks, respirators, shoe covers.

Be prepared!

How to be prepared for a nuclear, chemical or radiological event?



FORECAST (v.1)

IDENTIFY



Know the chemical, biological, radiological and nuclear hazard risks in your area.

PLAN



Make your
household
evacuation
plans and identify
safe havens



Keep a First Aid kit and an emergency kit at home.

Be prepared!

How to be prepared for a nuclear, chemical or radiological event?



IDENTIFY

FORECAST (v.2)



Know the chemical, biological, radiological and nuclear hazard risks in your area.





Make your household evacuation plans and identify safe havens



Keep a First Aid kit and an emergency kit at home.

Be prepared!



IMMEDIATE RESPONSE

GET INSIDE



Go to the basement or the middle of a building.

STAY INSIDE



Plan on 12 - 14 hours unless provided updated guidance.

STAY TUNED

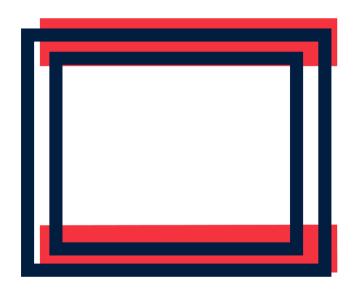


AM/FM radio is best, cellular and Internet if available.

Be prepared!



IMMEDIATE RESPONSE





- Block the air inlets with wet clothes or seal with adhesive tape.
- Stop any ventilation or air conditioning to prevent toxic vapors from getting inside.

- Do not smoke
- Avoid anything or sparks to reduce the risk of explosion.



AFTER



Wash if your skin gets irritated



In case of respiratory difficulties cover your mouth and nose with a wet cloth



Avoid areas
exposed to
chemical,
biological,
radiological and
nuclear hazards

Be prepared!



AFTER



Wash if your skin gets irritated



In case of respiratory difficulties cover your mouth and nose with a wet cloth



Avoid areas exposed to chemical, biological, radiological and nuclear hazards

Be prepared!

Routes of exposure to nuclear, chemical or radiological agents



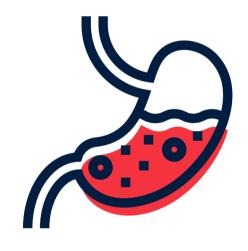
INHALATION

INGESTION

DERMAL



Breathed into the respiratory tract.



Taken into the body contaminated drinks or food.



Absorbed through the skin, sometimes even through layers of clothing.

Be prepared!

ifrc.org

Source: U.S. National Library of Medicine

What are Technological & Biological hazards?



Man-made **⊜aused**

Industrial pollution, toxic wastes, dam failures, transport accidents, factory explosions, fires, and chemical spills.



Chemical



Biological



Radiological



Nuclear



Environmental

Be prepared!

What are Technological & Biological hazards?



NaTech hazards



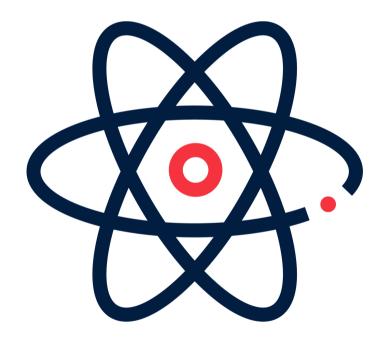
Climate-related or natural hazards, such as hurricanes, earthquakes, tsunamis and others can destroy factories and warehouses causing industrial failures and putting in danger communities

earby.

Be prepared!



Nuclear hazards



Nuclear emergencies involve or emerge from nuclear chain reactions from nuclear power plants, research reactors, or nuclear weapons, creating enormous effects.

Be prepared!



Radiological hazards

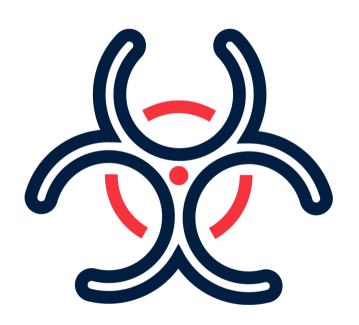


adiological emergencies can involve all other sources of radiation, such as radiography machines, radioactive material for use in industry, lost sources and more.

Be prepared!



Biological hazards



Public health emergencies, such epidemics and contaminated drinking water and food. Contamination can occur through natural exposure to the agent, accidental release of microorganisms.

Be prepared!



Chemical hazards



Chemical poisoning that pay may include thermal, asphyxiate, and physical injury risks, due to transportation or misused hazardous materials.

Be prepared!



Environmental hazards



Sudden commercial or industrial failures causing accidents of varying scope, such as spills or multiple fires affecting the environment and livelihoods.

Be prepared!