

ENVIRONMENT, HEALTH, AND SAFETY

QUICK REFERENCE GUIDE FOR VISITORS

INCIDENT RESPONSES

In An Emergency Dial 911

BIOLOGICAL EXPOSURE

1. Immediately perform first aid at worksite
 - Wash contaminated skin/wound with povidone-iodine, chlorhexidine, or soap and water for 15 minutes
 - Irrigate contaminated eyes and mucous membranes with an eye wash for 15 minutes
2. Notify your supervisor, if he/she is immediately available
3. Report to Occupational Health Services in Building 426, Monday–Friday, 8 a.m.–4:30 p.m.

FIRE EMERGENCIES

When the fire alarm sounds, immediately exit the building and move to the assembly location. Follow your escort. Do not return to the building until you have been given an all-clear message.

Prepare for a fire emergency by doing the following:

- Keep stairways, hallways, and exits clear
- Know your exits and participate in fire drills
- Report blocked exits or problems with fire systems, exit signs, or emergency lights to Safety at 301-846-1451

WEATHER EMERGENCIES

Prepare for weather emergencies, including snow, ice, tornados, and hurricanes, by doing the following:

- Sign up for Frederick County emergency weather alerts at <http://www.frederickcountymd.gov/ALERT>
- Know where to take shelter during a tornado warning
- Check for weather-related closings by visiting <http://www.detrick.army.mil> or calling the Protective Services Hotline at 301-846-1444
- Get preparedness information from FEMA at <http://www.ready.gov>

INCIDENTS

Incidents can be many things, including accidental damage to property or equipment, loss of scientific data, spills of biological or hazardous materials, a near miss, or an injury. When an incident happens, do the following:

- Dial 911 if it is an emergency
- Notify your sponsor immediately
- Notify your supervisor as soon as possible
- Call Protective Services if there is damage to property
- Call EHS at 301-846-1451 for all other incidents

IMPORTANT NUMBERS

Protective Services: 301-846-1091

Protective Services at ATRF: 301-228-4901

Occupational Health Services: 301-846-1096

Safety: 301-846-1451

E-mail EHS at EHS@mail.nih.gov

The **Environment, Health, and Safety (EHS)** directorate consists of three main departments:

- **Occupational Health Services**—provides comprehensive health services, medical surveillance for potential occupational exposures, emergency medical response, and treatment for accidental injury or illness.
- **Safety** (includes **Biosafety, Emergency Management, Environmental Protection, Fire and Life Safety, Industrial Hygiene, Radiation Safety, Waste Management, and Industrial/Construction Safety**)—maintains and develops safety programs and policies and procedures that comply with all federal, state, and local occupational safety and environmental laws to ensure that employees are working in a safe, healthy, and environmentally friendly workplace.
- **Protective Services**—provides facility security, shuttle services, and response to scientific alarms 24 hours a day, 7 days a week.

VISITOR GUIDELINES

- Visitors to the main campus, located within the Fort Detrick fence line, must follow all Fort Detrick security, parking, and traffic requirements.
- If an escort is required, stay with your assigned escort throughout your visit.
- Visit <https://ncifrederick.cancer.gov/about/VisitorsGuide.aspx> for detailed information about visiting our facilities.
- Take care to follow instructions on door signs and do not enter areas that you are unfamiliar with or have special hazards that require special knowledge, training, or personal protective equipment (PPE).
- Minimum PPE in laboratories includes safety glasses, closed lab coats, legs covered, and close toed shoes. Some facilities, such as animal facilities may have additional special entry requirements. Your escort will provide you with required PPE if you are not required to provide it as part of your contract (e.g., subcontractors).
- Hazards common to any industrial and laboratory setting may be present at the NCI at Frederick. Special laboratory hazards include biological hazards, radiological hazards, lasers, chemicals, and animal allergens. Speak with your escort or point of contact to gain additional information on the hazards present in our workplace.

GLOBALLY HARMONIZED SYSTEM (GHS) THE REVISED HAZARD COMMUNICATION STANDARD (HCS)

HAZARD CLASSIFICATION

Chemical manufacturers and importers are required to determine the hazards of the chemicals they produce or import. Hazard classification under the new, updated standard provides specific criteria to address health and physical hazards as well as classification of chemical mixtures.

SAMPLE LABEL

PRODUCT IDENTIFIER

CODE _____
Product Name _____

SUPPLIER IDENTIFICATION

Company Name _____
Street Address _____
City _____ State _____
Postal Code _____ Country _____
Emergency Phone Number _____

HAZARD PICTOGRAMS

SIGNAL WORD
Danger

HAZARD STATEMENT
Highly flammable liquid and vapor.
May cause liver and kidney damage.

SUPPLEMENTAL INFORMATION

Directions for use _____

Fill weight: _____ Lot Number _____
Gross weight: _____ Fill Date: _____
Expiration Date: _____

PRECAUTIONARY STATEMENTS

Keep container tightly closed. Store in cool, well ventilated place that is locked.
Keep away from heat/sparks/open flame. No smoking.
Only use non-sparking tools.
Use explosion-proof electrical equipment.
Take precautionary measure against static discharge.
Ground and bond container and receiving equipment.
Do not breathe vapors.
Wear Protective gloves.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Dispose of in accordance with local, regional, national, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon dioxide (CO₂) fire extinguisher to extinguish.

First Aid
If exposed call Poison Center.
If on skin (on hair): Take off immediately any contaminated clothing. Rinse skin with water.

Label elements include:

- **Product identifier**—chemical ID—chemical name, code # or batch #. The same ID must be on Section 1 of the SDS.
- **Name, address, and phone number** of the chemical manufacturer, distributor, or importer.
- **Precautionary statement(s)**—a phrase that describes recommended measures that should be taken for safety.
*For each hazard class and category.
- **Pictogram**—shape of a square set at a point; include a black hazard symbol on a white background with red frame. OSHA designates 8 pictograms (below).
*For each hazard class and category.
- **Signal word**—relative severity—“Danger” for more severe hazards and “Warning” for less severe hazards. If two levels, then most severe word is used.
*For each hazard class and category.
- **Hazard Statement(s)**—describes the nature of the hazard(s), including the degree of hazard. The statements are specific to the classification categories; always use the same statement for the same hazards.
*For each hazard class and category.

GHS PICTOGRAMS



Health Hazard

- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity



Flame

- Flammables
- Pyrophorics
- Self-Heating
- Emits Flammable Gas
- Self-Reactives
- Organic Peroxides



Exclamation Mark

- Irritant (skin and eye)
- Skin Sensitizer
- Acute Toxicity
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer (Non-mandatory)



Gas Cylinder

- Gases Under Pressure



Corrosion

- Skin Corrosion/Burns
- Eye Damage
- Corrosive to Metals



Explosion Bomb

- Explosives
- Self-Reactives
- Organic Peroxides



Flame Over Circle

- Oxidizers



Environment

- Aquatic Toxicity (Non-mandatory)



Skull and Crossbones

- Acute Toxicity (fatal or toxic)

OCCUPATIONAL HEALTH SERVICES (OHS)

NCI CAMPUS AT FREDERICK OHS CLINIC

Location: Building 426 **Hours:** 8 a.m.–4:30 p.m.

Telephone: 301-846-1096 **Fax:** 301-846-6150

E-mail: NCI-FrederickOHS@mail.nih.gov

ADVANCED TECHNOLOGY RESEARCH FACILITY (ATRF) OHS CLINIC

Location: 8560 Progress Drive, Frederick, MD **Hours:** 9:30 a.m.–1 p.m.

Days: Mondays, Wednesdays, and Fridays **Telephone:** 301-228-4922

OHS nurses are available to answer questions about health concerns in our work environment; however, medical services will not be provided except as allowed by contract.

PROTECTIVE SERVICES

NCI at Frederick: 301-846-1091 | **ATRF:** 301-228-4901

Vaccine Pilot Plant: 301-228-4083

Protective Services is available 24 hours a day, 7 days a week, to assist you with the following:

- Visitor identification cards (301-228-4629)
- Other access control system concerns (301-846-6372)
- After-hours emergency response and maintenance
- Vehicle accident reports
- Escort to your car and jumper cables for loan
- Lost and found

Call the Protective Services hotline at 301-846-1444 for the following information:

- Base closings
- Power failure information
- Other NCI at Frederick emergencies

WASTE MANAGEMENT

RECYCLING PROGRAM

For more information, call 301-846-5718.

- Place office paper, cardboard, plastic bottles, rinsed aluminum cans, newspaper, glass bottles and jars, and journals and books in recycling bins.
- Laboratory containers may or may not be recyclable—contact Waste Management for more information.

NCI AT FREDERICK—SINKS AND DRAINS

For more information about sanitary sewer disposal guidelines for NCI at Frederick, visit <https://ncifrederick.cancer.gov/ehs/wastemanagement/>.

- Contact Waste Management BEFORE pouring any laboratory or maintenance chemicals down the drain.
- Do not store hazardous chemicals next to sinks.
- In rooms with floor drains, chemicals in five-gallon containers or larger must be kept in secondary containment.
- Securely close chemical container lids or caps when chemicals are not in use.
- Do NOT dispose of ANY radioactive material into sinks—it is strictly prohibited.

ANIMAL ALLERGENS

WHAT IS THE ANIMAL EXPOSURE PROGRAM?

The AEP is a comprehensive program offered by EHS to provide education and training in response to the potential for at-risk visitors with known or potential animal exposures to develop animal allergens. Persons working with or around research animals and animal materials may be exposed to animal urine, dander and saliva, which contain allergens, or proteins, that may trigger an allergic reaction and has the potential for development of other related health conditions.

WHAT IS AN ALLERGY?

An allergy is an exaggerated reaction by the body's immune system to proteins. In the case of allergies related to laboratory animals, the proteins most frequently associated with the allergic reactions are found in the animal's urine, saliva, and dander.

Exposure to the fur of research animals including mice and rats may also cause animal allergens.

HOW AM I EXPOSED TO ANIMAL ALLERGENS?

Risk Factors:

- Inhalation of airborne animal allergens
- Animal bites and scratches
- Injuries from sharps used on an animal
- Skin contact with animal, animal excretions, or animal waste
- Animal waste or excretions aerosolized or splashed into eyes, nose or mouth
- Duration of exposure
- Allergen concentration

HOW DOES MY BODY REACT?

- Exposure to animal proteins can trigger the human immune system to release histamines and Immunoglobulin E (IgE) into the blood system.
- The release of histamines and IgE antibodies into the blood system results in inflammatory responses in various organ tissues, such as lungs, eyes or skin.
- Nasal symptoms to include sneezing, runny nose, itchy watery eyes and/or rashes; coughing or wheezing and shortness of breath which may be indicative of asthma; swelling in a localized region due to skin contact.

WHO IS AT RISK FOR ANIMAL ALLERGIES?

Risk Factors:

- working with research animals
- working with research animal materials
- with a history of allergies to other animal species, including dogs and cats, or hay fever
- who have family or personal history of asthma, seasonal allergies and dermatitis

If you suffer from severe animal allergens or have asthma triggered by animal allergens, you should consider not visiting our animal facilities. If you have questions, please contact our Occupational Health Services clinic for information and guidance.

WHAT CAN GO DOWN THE DRAIN?

The **only substances** allowed down the drain are those that meet the following:

Non-hazardous, Nonflammable

- × A No radioactive waste
- × No hazardous chemical waste
- × No untreated biohazardous waste
- × No 10% or more ethanol, isopropanol or methanol solutions

Liquid

- × No solids, sludge, or viscous substances

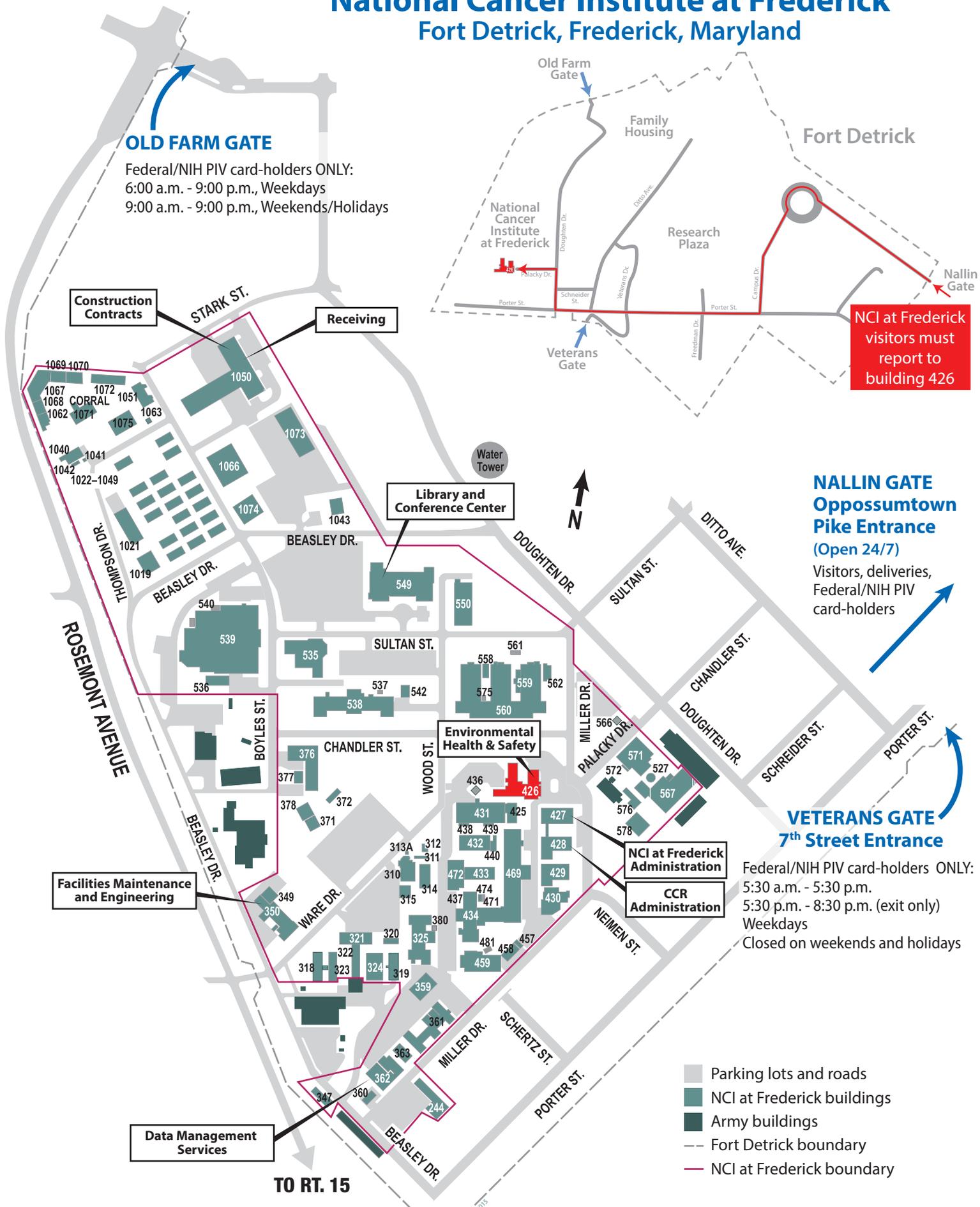
Will not interfere with sewage treatment operations

- × No corrosive pH levels
- × No grease or oil

Cleaners and disinfectants in their usable concentrations

Such as 10% bleach, Cavicide or Wescodyne

National Cancer Institute at Frederick Fort Detrick, Frederick, Maryland



- Parking lots and roads
- NCI at Frederick buildings
- Army buildings
- Fort Detrick boundary
- NCI at Frederick boundary

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