SUNY Poly/NY Creates Safety Orientation Training

NY Creates Security at the Albany Nanotech Complex
Rules and Regulations
NY CREATES Security

Albany Nanotech Complex Security Department provides:

• Emergency dispatch and response
• Life safety systems monitoring
• Visitor check-in
• Driving and parking enforcement
• Rule enforcement
• Vehicular and foot patrol
NY Creates Security Control Center

- The Albany Nanotech Complex Security Control Center is located on the NFE first floor and is staffed 24/7. To receive in person service the entrance is located on the North side or rear of the building.

- The visitor desk in the NFE visitor is staffed by a security officer during business hours M – F, 7 AM – 7 PM.

- Emergency Number: 518-437-8600
- Non-Emergency Number: 518-956-7082

  - Dialing 911 from a site landline will ring the Security Control Center.
  - The City of Albany Police Department is the primary responding police agency for the site and dialing 911 from a cell phone will ring the City of Albany Police Dispatch.
Access Control

Simple Rules to Remember

• Visitors will need to present a valid US drivers license or passport at the time of check-in. Photocopies or pictures of them will not be accepted.

• All badged persons at the Albany Nanotech Complex must display a NY CREATE access or visitor badge at all times.

• The badge should be worn on the front of your outermost garment between your neck and belt line.

• All visitors and new employees who are awaiting safety training and their access badge must have a visitor badge and escorted at all times by an employee with an active access badge.

• If security asks you for your ID, you are required to provide it.

• Taking pictures on site is prohibited unless in possession of a camera permit.

• No firearms are permitted at the Albany Nanotech Complex or Kiernan Plaza Site.

• Immediately notify security concerning any potential breaches of security or safety.
Access Control-Non-US Person Clearance

• All visitors must present a valid US driver's license or passport at the time of check-in. If the visitor or perspective employee to receive an access badge is a non-US person a non-US person visitor clearance form needs to be completed by an authorized sponsor 10 business days prior to the visit or employee coming on site. The site’s badging policy and forms are located on the NY CREATES website. [https://ny-creates.org/resources/](https://ny-creates.org/resources/)

• If the visitor is a non-US person that possesses a Permanent Resident Card (green card) the background check is not needed but the visitor must present the card when they register at the visitor desk.
Access Control

- All individuals must complete the safety orientation prior to receiving an access card/badge.

- You will receive an email notifying you when your badge is available to be picked up. Badging hours are 8 AM to 12 noon, Monday through Friday or by appointment. You must have a valid US drivers license or passport to prove your identity at the time of badge issuance.

- To make an appointment, please email Access Control at ACCESSCONTROL@sunypoly.edu

- If you have any additional access needs please speak to your supervisor and if approved have them email Access Control indicating the reader number adhered to the reader.
Facility Access

- Do not allow a person to follow you into the building or into interior areas requiring proximity card access (tailgating).
- Do not prop doors.
- Do not allow use of your access card or ID badge by any other person.
- Do not borrow another person’s access card.
- Anyone found using an access card belonging to someone else will cause access for both individuals to be shut off pending investigation.
- Access to the facility is restricted to individuals with card access clearance.
Tips for Staying Secure

• Only admit persons with valid identification badges into buildings and your work areas.
• Direct persons without badges to security.
• Enter and exit through designated doors only.
• Do not defeat door locks or latches.
• Do not leave unsecured doors unattended.
What to Report

• Recording or monitoring activities, taking pictures.
• Attempts to gain information about operations.
• Obtaining badges, access cards, credentials, etc.
• Attempts to enter restricted areas.
• Suspicious persons that are out of place.
  • This may include people who are in places they should not be as well as people who do not fit into the daily routine.
• Suspicious packages, bags, or mail.
• Broken doors, locks, windows, and inoperative lights.
• Illegal parking and driving violations.
How to Report

• Report suspicious activity and potential breaches to personal safety or security immediately by contacting site Security at 518-437-8600.

• When reporting
  • Identify yourself by first and last name.
  • Provide your location and be specific as possible.
  • WHO, WHAT, WHEN, WHERE, WHY, and HOW.
  • Remain on the line until the Security Officer retrieves all necessary information.
Assist Security

Safety and security is everyone’s responsibility...

1. Know Routines.
2. Be aware of what is going on around you.
3. Take what you hear seriously.
4. Monitor and control who is entering your workspace and buildings.
5. Check identifications.
Lost Access Cards/Keys

• Lost access cards/keys should be immediately reported to security. Security will deactivate lost access cards.

• PLEASE NOTE THAT THERE IS A $20.00 FEE TO REPLACE LOST NY CREATES ACCESS Badges.

• If you left your access card and/or ID at Home?

  You will have to report the security visitor desk in the NFE for a visitor badge. Access cards are unique to each individual. Security will not produce an access or identification card for individuals who left them at home.

• There is also additional fees for other property lost or not returned upon employee separation:

  Vehicle Hang Tag: $5.00  
  Key: $20.00  
  Core: $150.00 per door affected.
Roof Policy

• Notify Security before accessing any site building rooftop.

• Report to the Security Desk and sign the Roof Logbook.

• You must have a cell phone in your possession, so security can call you in the event of an emergency.
Suspicious Packages/Bags

What makes it a suspicious package/bag?

- Is it out of place?
- Excessive tape or string
- Rigid or bulky
- Lopsided or uneven
- Protruding wires or metal
- Strange odor
- Wrong title with name
- Oily stains, discolorations, or crystallization on wrapper
Suspicious Packages / Bags

If you think it is suspicious...

• Immediately call security at 518-437-8600.
• Do not shake, move, or empty the contents.
• Do not open, smell, or touch the package.
• Do not have others examine the package.
• Isolate the area by closing doors or sectioning off the area to prevent others from entering.
• Wash your hands with soap and water as soon as possible.
Telephone Threats

• Remain calm.

• Remain on the line. DO NOT HANG UP. Let the other person hang up on you.

• Write down the threat verbatim.

• Pay attention to background. Noises, music, cars, etc.

• Listen closely to the voice. Note any accents, gender, lisp, slurs, etc.

• Immediately notify security at 518-437-8600.
Practice Personal Safety

• Make use of the “buddy system.” Walk with a friend.

• Take advantage of the 24/7 personal safety escort program provided by security. Call or stop by the security desk in the NFE rotunda.

• Park your vehicle under a light if you are expecting to be on-site after dark. Have your keys ready for accessing your vehicle or building.

• Enter and exit via the NFE rotunda, the security control centers location, if you are working after hours or on weekends.

• Program your cell phone with the security phone number...518-437-8600.
Emergency Phones

• “Blue Light” emergency phones are located in the N Lot next to the NFX building. To activate open the box, pick up the phone, and advise the Security Control Center of your location and the emergency.

• “Blue Light” call boxes are located in the A, B, and F lot. These solar powered, wireless call boxes operate on a radio frequency. These can be activated by opening the box’s door and will alert security to its activation and location. If necessary, you may then speak to the Security Control Center by depressing and holding the red button however the activation alone will cause a security response.
Parking Policy Overview

1. Parking is by permit only.
2. Vehicles must possess valid state registrations and inspections.
3. All roadways on the site are fire lanes.
4. If there is no sign and no lines, it means “NO PARKING”. Do not block emergency lanes, loading zones, fire hydrants, sidewalks, travel lanes, etc.
5. All vehicles must be parked in areas that are designated for parking.
Parking Policy Overview

6. **DO NOT PARK** in a reserved parking space that is not yours.

7. If you need to bring a temporary vehicle to the site, move your parking permit to the temporary vehicle each day you bring it.

8. Hosts are responsible for advising visitors concerning parking rules and regulations.

9. Over-night parking is allowed when approved in advance by security. You may pick up and complete the form at the security control center in the NFE.

10. Any vehicle violating the above rules or creating a hazard will be subject to immediate tow at YOUR expense without warning.
Parking Areas

- General parking is available in Lots A, F, and N

There is no parking allowed in Freedom Quad.

- This lot is monitored by UAlbany.
- If you park in this lot, you may be ticketed and/or towed at your own expense.
Pedestrian Safety

Take Steps to Avoid Injury While Walking:

• Be visible and make eye contact with drivers of vehicles.
• Never assume a driver will give you the right of way or stop.
• Stay alert, head up, and avoid distractions such as cell phones or other electronic devices while walking.
• Walk in safe places even though it may not be the quickest or most direct path. Use crosswalks when crossing the streets.
• Look left, right, and left again before crossing a street.
• Stand clear of parked cars or other obstacles before crossing so drivers can see you.
Driver Safety Onsite

• Albany Nanotech Complex speed limit is 15 MPH.
• Focus 100% of your attention on driving.
• Don’t use your phone or any other electronic device while driving.
• Observe and obey all traffic signs (e.g., stop, yield, pedestrian crossing, crosswalk, speed limit) to ensure the safety of yourself and others.
• Yield for pedestrians at all times and in crosswalks.
• Always wear your seat belt.
• Drive safely and defensively on site roads, in parking lots, etc.
• Repeated safety violations related to driving may result in the loss of parking and driving privileges on site.
Active Shooter

Active Shooter Options for Consideration-RUN-HIDE-FIGHT

• Click: https://www.youtube.com/watch?v=TeOdxKozra0 or Copy and past the link to view the video.
Active Shooter

Best Practices

• Be aware of your environment and any possible dangers.
• Take note of the nearest exits.
• If you are in an office and are unable to run, secure and/or barricade the door and remain quiet.
• If you are unable to run or hide, fight using any and all means to win.
• If a police officer approaches you, keep your hands visible and follow their commands.
• CALL 911 WHEN IT IS SAFE TO DO SO.
Security Messaging

In the event of some emergencies audible tones and messaging may be transmitted. Click on speaker icons to review.

Code Silver-Active shooter and/or armed intruder.

Lock Down-An event has occurred where site population should remain secured within buildings and offices.
Questions?

Call: 518-956-8600 or Visit Security in the NFE Rotunda
IT Familiarization Module

Purpose: Basic understanding of what resources are available on the SUNY Poly Internet/Intranet page and clean room restrictions regarding PCs and removable media
SUNY Poly Intranet
Important Points to Remember

• Company-owned laptops can be brought into the clean rooms provided their operating system patching and anti-virus software are up-to-date and the device and any removable computer storage media is scanned for viruses on a regular basis.

• All removable media (flash drives, hard drives, CDs) must be scanned at the scanning station outside the gowning room before entering and after exiting the cleanroom.

• Personally-owned laptops, phones, iPods, etc., are not allowed to be connected to cleanroom Wi-Fi due to concerns for network security, data confidentiality, and malware infections.
IT Assistance

• The SUNY Poly Help Desk is available to assist you with IT related issues.

• The Help Desk can be reached by telephone at 518-956-7272 and by email at cnsehelp@sunypoly.edu
  • 24/7 Coverage
Environmental, Health and Safety (EHS) Training
Course Objectives

• Increase your awareness of Environmental, Health and Safety (EHS)

• Inform you of your responsibilities for EHS at the NY CREATES/SUNY Poly Albany Campus

• Provide awareness of EHS policies and procedures

• Provide information for hazard recognition and reporting
SUNY Poly EHS Policy Statement

NY CREATES / SUNY Poly is committed to:

- Protecting the health and safety of its employees, partners, customers and public
- Protecting the environment
- Complying with regulatory standards
Employee Responsibilities for Safety

• All individuals are responsible for safety at NY CREATES/SUNY Poly

• Take an active role in your safety and the safety of others
  • Report unsafe behaviors, actions, and/or conditions

• Understand the potential hazards to which you may be exposed

• Plan for and perform tasks in a safe manner

• Follow NY CREATES/SUNY Poly and your own company’s safety policies and procedures

• Contact your manager if you feel you need additional safety training and/or equipment
Employee Responsibilities

• Contractors must read and comply with the Contractor Safety Guide for NY Creates/SUNY Poly Albany and Kiernan Plaza Sites (.PDF). Access the Contractor Safety Guide on the SUNY Poly Forms and/or Training homepages.

• Be alert for maintenance concerns and report any concerns with the NY Creates/SUNY Poly facility (e.g., restrooms, air conditioning, walkways, stairs, doors, lighting, parking lots) to cnsefix@sunypoly.edu for corrective action.

• Take action to correct potential hazards in the workplace by notifying your manager and/or security.
Prevent Hazard Exposure Using The Hierarchy of Controls

Hierarchy of Controls

- **Elimination**: Physically remove the hazard.
- **Substitution**: Replace the hazard.
- **Engineering Controls**: Isolate people from the hazard.
- **Administrative Controls**: Change the way people work.
- **PPE**: Protect the worker with Personal Protective Equipment.
Additional EHS Training

• CLEANROOM SAFETY TRAINING:
  • For individuals who go in the cleanrooms at the Albany Nanotech Complex.

• LABORATORY SAFETY TRAINING:
  • For SUNY Poly students or employees who work in laboratories.
  • Cleanroom and/or Laboratory Safety are required prior to access being granted for any cleanroom or lab.
  • Both classes are available online on the intranet or internet.
  • Ask your supervisor what additional training you may need.
Safety Training Located on Internet

1. Go to sunypoly.edu
2. In the top right click on search
3. Type Contractor Training
4. Click on the link for Training

https://sunypoly.edu/research/albany-nanotech-complex/contractor-training.html
Welcome to the CNSE Environmental, Health and Safety (EH&S) Intranet Webpage!

This site has been created to provide you with access to information on the EH&S services and resources that are readily available for you at the CNSE Facility.

This site also provides links to important regulatory requirements, as well as to all the EH&S policies and procedures that have been developed and implemented to assist in reducing hazards to the CNSE and University communities.

We hope the navigation is intuitive and the information useful!
EHS Information Located on Intranet

1. Go to sunypoly.edu
2. In the top right click on search
3. Type Safety
4. Click on the link for Environmental Health and Safety
5. Select Albany

Illness Prevention

• Follow the Centers for Disease Control and Prevention (CDC) and NYS Department of Health (DOH) guidelines.

• CDC and NYS DOH recommends a flu vaccine every year.

• Wash your hands often with soap and water for at least 20 seconds or use a hand sanitizer that contains at least 60% alcohol.

• Avoid touching your eyes, nose, or mouth with unwashed hands. Germs spread this way.

• Avoid close contact with people who are sick.
Protect Yourself From Illness

• Stay home if you are sick, except to get medical care.

• Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. Throw used tissues in the trash.

• Immediately wash your hands.

• Clean and disinfect frequently touched surfaces and objects that may be contaminated with germs.

• Listen to and follow public health advice. This may include information about how to increase distance between people and other measures.
Site Emergencies and Reporting
Emergencies

- The following emergencies can occur at this facility:
  - Fire/Smoke
  - Laboratory/Gas Alarm
  - Chemical Spill
  - Medical
  - Utility Failure
  - Violence or Terrorism

- For any emergencies at the NY CREATES/SUNY Poly Albany campus you must call SECURITY IMMEDIATELY (518) 437-8600

- At the University at Albany Campus, call 911
Emergency Response Team “ERT”

- ERT is comprised of a team of trained employees
  - (8 Full-Time ERT Technicians and ~50 volunteers)

- The team’s purpose is to evaluate on-site emergencies 24/7 and take appropriate actions
  - ERTs are 1st responders for our site who are trained in First Aid and CPR
  - For any evacuations do not go back into the area until the ‘all clear’ is given by ERT/EHS

- For ERT assistance or reporting an emergency, contact Security at 518-437-8600
Gas Alarm Procedures
(does not apply to UAlbany Labs)

• Automatically activated by SUNY Poly’s Toxic Gas Monitoring System (TGMS)
• ERT is paged immediately
• Audible and visual alarm
• Cleanrooms and subfabs shall evacuate via the nearest exit (gowned)

• Regroup in:
  • NFS rotunda if in NFS or NFSX
  • CESTM rotunda if in NFN, NFC, NFX, or CESTM

• Alarm and warning set points based on ACGIH TLVs
Fire Emergency Alarms

• Evacuation Alarm – All Buildings
  • Click on the box to hear the alarm >

• ZEN (Building 201) Only
  • Evacuation Alarm on Incident floor, one floor up and one floor down
  • Alert on all other floors (no flashing lights)

• Click on the box to hear the alert >
Fire Emergency Procedures

Fire/Smoke

- If you see fire/smoke (and building is not in alarm)
  - Leave the fire area, assist others that are in danger area
  - Close the door to the room/area where the fire is located
  - Activate fire pull station, normally located at door to stairwell
  - Contact Security at (518) 437-8600 from a safe location
  - Continue exiting the building, report to your rally point

- If you hear the fire alarm
  - Evacuate via the nearest building exit
  - Report to your rally point
  - If able, assist others while evacuating
  - Do NOT use the elevators
Rally Points are Located at Designated Light Poles in the Parking Lots

<table>
<thead>
<tr>
<th>Rally Points by Building/Group</th>
<th>Floor</th>
<th>Parking Lot</th>
<th>Rally Point</th>
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<tbody>
<tr>
<td><strong>STUDENTS</strong></td>
<td>All buildings/floors</td>
<td>A</td>
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<td><strong>NFE</strong></td>
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<td><strong>CUB and Substation</strong></td>
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</tbody>
</table>
Emergency Reporting

- REPORT any work-related injury, accident, illness, fire, medical emergency, or chemical spill to Security at (518) 437-8600 and to your manager

- Managers will:
  - Investigate work-related incidents (e.g., injury, accident)
  - Complete an incident report
  - Take corrective action(s) to prevent recurrence
The OSHA Hazard Communication Standard (HCS) and the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Safety Data Sheet (SDS)
Labels
Handling and Disposal
Hazard Communication Standard


• “Workers have the right to know and understand the hazardous chemicals they use and how to work with them safely.”

• This regulation is designed to make information about hazardous chemicals that are present in workplaces available to exposed employees.

• The hazard communication standard applies to any business, including manufacturers that use hazardous chemicals, regardless of the number of individuals employed.
Purpose

OSHA Hazard Communication Standard (HCS)

• Classifies chemicals by their hazards

• Provides information to employees
Globally Harmonized System (GHS)

GHS provides a common and coherent way to:

• Classify the chemicals used in the workplace
• Communicate the hazard information on labels and safety data sheets with symbols and terms that will be used on both domestic and foreign products and chemicals
Hazard Classification of Chemicals

HAZARDS

Physical Hazards
- Such as
  - Flammable gases
  - Explosives
  - Gases under pressure

Health Hazards
- Such as
  - Skin corrosion/irritation
  - Carcinogenicity
  - Acute toxicity

Environmental Hazards
- Acute aquatic toxicity
- Chronic aquatic toxicity
GHS Labels

• Labels are:
  • Written or printed
  • Graphic information (pictograms)
  • Attached to the immediate container or package of a hazardous chemical

• Labels must be:
  • Legible and clearly displayed
  • In English (other languages can be added if needed)
  • Revised within 6 months when new information becomes available
Label Example

- Pictograms – diamonds indicating chemical hazards.
- Signal Word – either “Danger” or “Warning” as identified on the chemical SDS. Signal Word is determined by hazard category.
- Hazard Statements – describe the nature and degree of the product risks.
- Precautionary Statements – how to handle the product in order to minimize risk.
Chemical Labeling

All chemical containers must be labeled properly!

- Name of Chemical
- Primary Hazard(s)
- Pictograms

**CHEMICAL X**

**DANGER**

**HAZARD STATEMENTS**
- Fatal if swallowed.
- Causes severe skin burns and eye damage.

**PRECAUTIONARY STATEMENTS**
- Wear protective gloves.
- Wear face protection.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after use.
- Store in a sealed container.
- IF ON SKIN: Rinse immediately with cool water.
- IF IN EYES: Rinse thoroughly with water and seek medical attention.
- IF SWALLOWED: Do not induce vomiting. Seek medical attention.

Dispose of contents/container in accordance with local regulations
Chemical X Manufacturing, 1234 Over There St., Nowhere, IL 12345 (123) 456-7890

See the S.D.S. for more information.
HCS/GHS Pictograms

• Standardized symbols or graphics
• Used to symbolize health, physical, and environmental hazard information
• Will be present on both Safety Data Sheets (SDS) and Labels
HCS/GHS Pictograms and Hazards

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flame</th>
<th>Exclamation Mark</th>
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<tbody>
<tr>
<td>Carcinogen</td>
<td>Flammables</td>
<td>Irritant (skin and eye)</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Pyrophorics</td>
<td>Skin Sensitizer</td>
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<tr>
<td>Reproductive Toxicity</td>
<td>Self-Heating</td>
<td>Acute Toxicity (harmful)</td>
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<tr>
<td>Respiratory Sensitizer</td>
<td>Emits Flammable Gas</td>
<td>Narcotic Effects</td>
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<tr>
<td>Target Organ Toxicity</td>
<td>Self-Reactives</td>
<td>Respiratory Tract</td>
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<td>Aspiration Toxicity</td>
<td>Organic Peroxides</td>
<td>Irritant</td>
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<td>Hazardous to Ozone Layer (Non-Mandatory)</td>
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<thead>
<tr>
<th>Gas Cylinder</th>
<th>Corrosion</th>
<th>Exploding Bomb</th>
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</thead>
<tbody>
<tr>
<td>Gases Under Pressure</td>
<td>Skin Corrosion/Burns</td>
<td>Explosives</td>
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<td></td>
<td>Eye Damage</td>
<td>Self-Reactives</td>
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<td></td>
<td>Corrosive to Metals</td>
<td>Organic Peroxides</td>
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<thead>
<tr>
<th>Flame Over Circle</th>
<th>Environment (Non-Mandatory)</th>
<th>Skull and Crossbones</th>
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<tbody>
<tr>
<td>Oxidizers</td>
<td>Aquatic Toxicity</td>
<td>Acute Toxicity (fatal or toxic)</td>
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</table>
Signal Words

Show the severity of possible hazard and lead people to taking precautions.

- Warning: used for less severe hazards
- Danger: used for more severe hazards
Hazard Statement

- Describes nature of hazard(s) of a chemical for each hazard class (i.e., physical, health, environmental)

- Examples
  - “Causes serious eye damage through prolonged or repeated exposure.”
  - “Toxic if inhaled.”
Precautionary Statement

• Measures to prevent or minimize adverse effects of chemicals during handling, transportation, or storage.

• Examples
  • “Keep away from heat, sparks, and open flames and store in a cool, well-ventilated place.”
  • “Do not eat, drink, or smoke when using this product.”
Safety Data Sheet (SDS)

• A document containing details of specific hazardous chemicals and their usage

• HCS requires chemical manufacturers, distributors, or importers to provide SDSs (formerly MSDS) to communicate hazards of chemical products
Safety Data Sheet (SDS) Content

• Uniform format and sections
• 16 sections (12 mandatory)
  • Section 1: Identification
  • Section 2: Hazard(s) identification
  • Section 3: Composition/information on ingredients
  • Section 4: First-Aid measures
  • Section 5: Fire-fighting measures
  • Section 6: Accidental release measures
  • Section 7: Handling and storage
  • Section 8: Exposure controls/personal protection
  • Section 9: Physical and chemical properties
  • Section 10: Stability and reactivity
  • Section 11: Toxicological information
  • Section 12: Ecological information
  • Section 13: Disposal considerations
  • Section 14: Transport information
  • Section 15: Regulatory information
  • Section 16: Other information

Non-mandatory
Safety Data Sheet (SDS) Example

**Product Name:** GASOLINE, UNLEADED AUTOMOTIVE

**Company:** ExxonMobil

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** GASOLINE, UNLEADED AUTOMOTIVE

**Product Code:** 12105-20

**Company:** ExxonMobil Corporation

**Company Address:** 09/27/2017

**Emergency Telephone:** 800-222-1222

**Signal Word:** Danger

**Hazard Statement:**

**Incompatibility:**

**Precautionary Statements:**

**Precautions for Use:**

**Exposure Control:**

**Control Parameters:**

**Physical and Chemical Properties:**

**Environmental Information:**

**Disposal:**

**Transport Information:**

**Regulatory Information:**

**Other Information:**

**Other Information:**

**SDS Information:**

**Revision History:**

**Company Information:**

**Copyright Information:**

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Safety Data Sheets (SDS)

- SDSs are available 24/7 using the HAZMIN database through the EHS intranet page (i.e., Approved Chemical List) or by going to cnse.comply1.com and signing in

- EHS approves each chemical on either a lab-by-lab or tool-by-tool basis

- EHS requires an SDS for all chemicals on site
Types of Chemicals at Albany Nanotech Complex

- Flammables and Pyrophorics
- Carcinogens
- Toxics
- Corrosives
- Oxidizers
- Compressed Gases
- Cryogenics
How Can You be Exposed?

• Ingestion: Eating

• Inhalation: Breathing in through the mouth or nose

• Injection: Needle stick or into a cut, directly into your bloodstream

• Absorption: Contact with the skin or eye
Chemical Exposure

• If you suspect that you have been exposed to a chemical and are experiencing any of the following conditions:
  • Dizziness
  • Shortness of breath
  • Headache
  • Upset stomach
  • Skin Contact

• CALL (518) 437-8600 and CONTACT YOUR SUPERVISOR IMMEDIATELY
Chemical Contact

Go to the closest shower

- Remove contaminated clothing: clothing will keep the chemical in close contact with the skin
- Rinse for 15 minutes with water or until medical help arrives
- Get someone to call (518) 437-8600 and notify your supervisor
- Contact to the eyes: hold eyelids open and apart with your thumbs and finger while rinsing
HCS and GHS Summary

• It is your right to know and understand the hazardous chemicals you use and how to work with them

• HCS classifies chemicals by their hazards and provides information to employees

• Study the SDS and label before working with chemicals

• Contact your supervisor for any additional information or questions
Waste Labeling and Stormwater Pollution Prevention
Universal Waste

- Batteries
- Ballasts
- Lightbulbs

- When you need to dispose of universal waste, use the appropriate universal waste label and place in a satellite accumulation area
Chemical Waste

• Do not put ANY chemicals down the drain or in the trash
• Waste goes in Satellite Accumulation Areas
• Broken glass needs to be placed in a hard-walled container before disposal
• Broken wafers go in the wafer disposal bins or other approved locations
• Individuals who generate hazardous waste must complete the Hazardous Waste Handling training available on the intranet
Stormwater Pollution Prevention Tips

• What must I do to help protect the stormwater runoff?
• Practice excellent housekeeping – Do not discard trash and/or garbage in site parking lots or on the site grounds.
• Be aware of and protect nearby stormwater intake drains while performing tasks.
• Do not dispose of oil or any chemicals on the ground, in storm drains, ditches, or waterways.
• No outdoor staging of chemicals without EHS approval.
• Report chemical spills and/or leaks to the site emergency number 518-437-8600.
General Safety and Quality Policy
ACCIDENT PREVENTION SIGNS

• Danger signs: Indicate immediate danger and that special precautions are necessary

• Caution signs: Indicate a possible hazard against which proper precautions should be taken

• Safety instruction signs: indicate general instructions on safety measures
Ladder Safety

- Follow manufacturer instructions and ladder labels
- Face the ladder while climbing up or down
- Check for, and avoid, overhead power lines
- Only put ladders on a stable, level surface
- Keep slippery materials away from ladders
- Use a barricade to keep traffic away
- Maintain 3 points of contact (two hands and a foot, or two feet and a hand)
Electrical Safety

• Only authorized, qualified, and trained personnel are allowed to work on electrical equipment, circuits, and parts.

• Do not:
  • Overload electrical outlets
  • Use damaged electrical cords (worn/frayed insulation or exposed wires)
  • Daisy chain (plug an outlet strip into an outlet strip, etc.)
  • Use extension cords in place of permanent wiring

• Do:
  • Inspect wiring, power cords, and electrical tools before use for damage to cords
  • Use GFCI in areas with water
  • Use extension cords with a GFCI for temporary or portable equipment
  • Report any electrical shocks
Control of Hazardous Energy
(Lockout/Tagout ) (LOTO)

• Used to safeguard employees from the unexpected startup of machinery and equipment or the release of hazardous energy during service or maintenance activities
• Employees must be authorized and trained to do LOTO procedures and perform maintenance of equipment
• Do Not defeat, tamper with, ignore, or operate any devices, or start up any machines or equipment that is locked or tagged out
• The tags and locks shall only be removed by the authorized person who attached them
Housekeeping

• Ensure emergency exits, aisles, fire extinguishers, safety showers, and eye-wash equipment are unobstructed

• All doors and hardware must operate correctly

• Keep storage at least 18 inches below fire sprinkler heads

• Keep drawers closed when they are not being used

• Emergency exit signs are visible, and the lighted type are lit

• Keep work areas clean and organized

• Take corrective action when appropriate

• Report maintenance concerns with the NY CREATE/SUNY Poly facility (e.g., restrooms, air conditioning, heat, walkways, stairs, doors, lighting, parking lots) to cnsefix@sunypoly.edu for corrective action
Working Alone

• Individuals can not work alone on site while performing extremely hazardous activities such as:
  • Handling chemicals
  • Performing service and maintenance

• Individuals must be within sight and calling distance of another individual

• Reference EHS-00045 procedure
Ergonomics

- Repetitive motion injuries make up a majority of musculoskeletal occupational injuries
- Warning signs: Pain, serve discomfort, numbness, tingling
- Contact EHS for an ergonomic assessment of your workstation or operation, if needed
Materials Handling Overview

- Plan with ergonomics and safety in mind before materials (e.g., objects, loads) handling such as lifting, pushing, pulling and carrying
- Before handling materials, check for weight labels and stability
- For materials that are unstable, heavy, and/or bulky, employ safety measures such as use of mechanical equipment (e.g., hand truck, cart), reduce weight of the load, two or more person lift, and repack objects
- Pushing is generally preferable to pulling
- Wear appropriate footwear to avoid slips, trips, falls, or foot injury
Guidelines for Materials Handling

• Wear proper gloves if necessary

• Lift only as much as you can safely handle by yourself

• Keep the lifts in your power zone (i.e., above the knees, below the shoulders, and close to the body), if possible

• Do not lift, carry, or transport unsafe and/or unstable materials

• Try to avoid stairs or slippery walking/working surfaces
Guidelines for Proper Lifting

When lifting:
- Use proper handholds, get a secure grip, and use both hands whenever possible
- Avoid jerking by using smooth, even motions
- Keep the load as close to the body as possible
- To the extent feasible, use your legs to push up and lift the load, not the upper body or back
- Avoid twisting your body; step to one side or the other to turn
- Alternate heavy lifting or forceful exertion tasks with less physically demanding tasks
Quality Policy

“We are committed to fulfilling our customer’s expectations for development of semiconductor technology and fabrication of semiconductor devices and to the continual improvement of the quality management system”

Every SUNY POLY employee involved in fabrication of semiconductor devices is committed to:

- Achieving our customer’s satisfaction with our products and services
- Compliance with all statutory and regulatory requirements
- Continually improving the effectiveness of the quality management system

These commitments will be met through reviewed, approved and documented quality objectives, a shared quality culture, commitment to performance and unyielding integrity.

Contact Information
Quality Leader:
Vlad Stolkarts, vstolkarts@sunypoly.edu, 518-300-0159
Summary

• NY Creates/SUNY Poly is committed to providing you a safe working environment

• You are a key player in this effort

• All individuals onsite are expected to share that commitment

• If you see something, say something

• Each of us must comply with safety and environmental laws and NY Creates/SUNY Poly safety and security requirements

• Thank you in advance for your support and efforts toward workplace safety, health, and security