

Environmental Health and Safety Restricted Purchase Items

Laboratory and/or Research Equipment and Materials Requiring Review by Georgia Tech EHS before Acquiring:

This Document Is Taken from the GT EHS Website Where it Is Found Under the Heading “Restricted Purchases”

(<http://www.ehs.gatech.edu/chemical/restricted>)

Equipment Requiring Pre-Notification to GT EHS AND CES Committee Approval:

- ✦ Ethylene oxide sterilizers
- ✦ Class 3b or 4 lasers
- ✦ Magnets or magnet systems capable of creating a magnetic field ≥ 5 gauss at a distance of 1 foot or at the operator’s position, whichever is less.
- ✦ Equipment generating sub-radiofrequency (30kHz and below) magnetic field in which at any time the magnetic flux density in millitesla (mT) may be $\geq 60/\text{frequency (in Hz)}$
- ✦ Equipment which may generate noise at any time in excess of 82 decibels, A weighted scale (dBA) (laboratory or research application- indoor or outdoor)
- ✦ Any equipment which is to be connected to the exhaust ventilation system such as fume hoods, vented cabinets, laminar flow hoods, etc.
- ✦ Biosafety cabinets
- ✦ Clean benches that recirculate air back into the room (Note that recirculating fume hoods or benches for the control of contaminants other than dry particulates are not allowed by the Board of Regents rules).
- ✦ Autoclaves
- ✦ X-Ray generating equipment

Chemicals Requiring Pre-Notification to GT EHS and CES Committee Approval

- ✦ Explosives including but not limited to TNT and RDX (any amount)
- ✦ Pyrophorics (solid, liquid, or gaseous)
- ✦ Highly toxic gases which include:
 - Gases with a Lethal Concentration 50% by inhalation exposure of less than 3000 ppm
 - Gases which carry an NFPA Health Safety Rating of 3 or 4
 - Gases which Carry an NFPA Health Safety Rating of 2 but have poor physiological warning properties (little or no odor or taste at harmful levels) such as carbon monoxide

Materials Requiring ONLY Pre-Notification to GT EHS

- ✦ Water reactive materials

- ✚ Extremely toxic solids or liquids which include material with a Lethal Dose 50% by ingestion of 5 mg of material per kg of animal body weight ($LD_{50} \leq 5\text{mg/kg}$) or less.
- ✚ Organo-mercury compounds with an $LD_{50} \leq 50\text{ mg/kg}$ (includes dimethyl mercury)

The Pre-Approval Process

- ✚ Please contact EHS at <http://www.ehs.gatech.edu/contact/chemical> using the form below to describe the proposed purchase. EHS will forward the form to the Chemical and Environmental Safety Committee (CESC) as appropriate
- ✚ Allow 1 week for response

Pre Notification /Application to Purchase Restricted Equipment or Materials

Pre-Notification/ Application to Acquire Restricted Equipment

Date	Name	Title
Office Phone Mobile Phone	e-mail Address	
Department	Research Group	

Equipment Description	
Manufacturer	Model
Laser Hazard Class	Power

Please attach a site safety plan for the use of this equipment which includes:

- ✚ PI name and emergency contact information
- ✚ Name of the Instrument / Equipment
- ✚ Date the instrument is to become operational
- ✚ Hazards associated with this equipment
- ✚ Engineering controls installed to control hazards
- ✚ Administrative controls in place to control hazards
- ✚ SOP for using this equipment including safety precautions, use of personal protective equipment, engineering controls, etc.
- ✚ What are the possible consequences of a “catastrophic failure” of safety controls
- ✚ Training information made available to those who will be using the equipment and also those who may be affected by a “catastrophic failure”
- ✚ Emergency procedures following an accident or a catastrophic failure of safety controls

Please forward this form and the requested information to:
Deborah Wolfe-Lopez, Georgia Tech Laboratory and Chemical Safety Manager
(debbie.wolfe-lopez@ehs.gatech.edu)

Environmental Health and Safety	
Pre-Notification Received On:	Notes:
Responded On:	
Signature	
Chemical and Environmental Safety Committee	
Application Received On:	Notes:

Pre-Notification / Application to Acquire Restricted Chemicals

Date	Name	Title
Office Phone Mobile Phone	e-mail Address	
Department	Research Group	
Location where chemical is to be used: Building Room		

Chemical Name and most common synonyms	
CAS Number	
Manufacturer	Product Number
Hazard Description	
NFPA Ratings Health Fire Reactivity	Other Hazard Notes

Please attach a site safety plan for the use of this material which includes:

- ✚ PI name and emergency contact information
- ✚ Name of the chemical and CAS number
- ✚ Date the material is to go into use
- ✚ Hazards associated with this material
- ✚ Engineering controls installed to control hazards
- ✚ Administrative controls in place to control hazards
- ✚ SOP for using this material including safety precautions, use of personal protective equipment, engineering controls, etc.
- ✚ What are the possible consequences of a “catastrophic failure” of safety controls
- ✚ Training information made available to those who will be using the material and also those who may be affected by a “catastrophic failure”
- ✚ Emergency procedures following an accident or a catastrophic failure of safety controls

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Deborah Wolfe-Lopez, Georgia Tech Laboratory and Chemical Safety Manager
(debbie.wolfe-lopez@ehs.gatech.edu)

Environmental Health and Safety	
Pre-Notification Received On:	Notes:
Responded On:	
Signature	
Chemical and Environmental Safety Committee	
Application Received On:	Notes:
Approved <input type="checkbox"/> Disapproved <input type="checkbox"/>	
Signature	