

National Aeronautics and Space Administration  
**Goddard Space Flight Center**  
Greenbelt, MD 20771



Reply to Attn of: 250

Mr. Benjamin M. Barksdale, Fire Chief  
Prince George's County  
Fire and Emergency Medical Services Department  
9201 Basil Court, Suite 452  
Largo, MD 20774

Dear Mr. Barksdale,

As required by Section 312 of the Emergency Planning and Community Right-to-Know Act (EPCRA), the Goddard Space Flight Center is submitting the enclosed 2018 Tier II Emergency and Hazardous Chemical Inventory. If you have any questions or comments concerning this report, please contact Ms. Lixa Rodriguez-Ramon at (301) 286-4613.

Sincerely,

A handwritten signature in black ink, appearing to read "K Finch".

Kimberly Finch, P.E.  
Chief, Medical and Environmental Management Division

Enclosure

**Tier II Emergency and Hazardous Chemical Inventory**  
**Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850**

Reporting Period From January 1, 2018 to December 31, 2018

Annual  Update  Revised  Facility Information has changed from the last submission

<b>Facility Identification</b>				<b>Owner/Operator Details</b>	
Facility ID:	1850	LEPC:	Prince George's County LEPC	Name:	NASA Goddard Space Flight Center
Facility Name:	NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon)	Lat/Long:	38.9913978/-76.852567 5	Address:	8800 GREENBELT ROAD, CODE 250, Attn. Kimberly Finch - Code 250 GREENBELT, MD 20771, United States
Maximum Occupants:	8200			Phone:	301-286-7442 Email: kimberly.s.finch@nasa.gov
Physical Location:	8800 GREENBELT ROAD, GREENBELT, Nature of Business: MD 20771				
County:	Prince Georges	NAICS Code:	927110	<b>Parent Company Details</b>	
Fire Department:	Prince George's Fire/ EMS Department	SIC Code:	9661	Name:	
Phone:	301-286-4613	Dun and Brad No:		Dun and Brad No:	
<input checked="" type="checkbox"/> Manned <input type="checkbox"/> Unmanned				Address:	MD , United States
				Phone:	Email:
Subject to EPCRA Section 312 (Annual Inventory)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Tier II Information Contact</b>			
Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name:	Lixa Rodriguez-Ramon		
Subject to Section 112r of Clean Air Act (CAA)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Title:	Environmental Engineer		
RMP Facility ID:		Phone:	301-286-4613	24 Hr. Phone:	301-286-8661
Subject to EPCRA Section 313 (Toxic Release Inventory - TRI)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Email:	lix.e.rodriguez-ramon@nasa.gov		
TRI Facility ID:		<b>Facility Emergency Planning Coordinator</b>			
<b>Emergency Contacts</b>					
<b>Name</b>	<b>Title</b>	<b>Phone</b>	<b>24 Hr. Phone</b>	<b>Email</b>	
Security Operations Center	Uniform Services Division	301-286-8661	301-286-8661	Brenden.J.Kettner@nasa.gov	
Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 22, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.				<b>Optional Attachments</b>	
Kimberly Finch, P.E., Chief, Medical & Env Mngt Div		2/8/2019 10:19:48 AM	301-286-4230	<input type="checkbox"/> Site Plan	
Name and official title of owner/operator or authorized representative		Date Signed	Telephone Number	Signature 	
				<input type="checkbox"/> Site Coordinate Abbreviations	
				<input type="checkbox"/> Other Safeguard measures	
				<input type="checkbox"/> Facility Emergency Response Plan	

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards
Chemical ID: 150235 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 68476-30-2 Trade Secret: <input type="checkbox"/> Chemical Name: #2 Fuel Oil EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPO: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)

Inventory	Storage Codes & Location						
	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
Max Daily Amt (lbs): 1538280 Max Daily Amt Code: 12 Avg Daily Amt (lbs): 1538280 Avg Daily Amt Code: 12 Max Amt in Largest Container (lbs): No of days onsite: 365	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	CODE 220/Facilities Management Division			
	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	CODE 270/Information and Logistics Management Division			
	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150249 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 67-64-1 Trade Secret: <input type="checkbox"/> Chemical Name: Acetone EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 11000 Max Daily Amt Code: 06 Avg Daily Amt (lbs): 11000 Avg Daily Amt Code: 06 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850

Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150244 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7440-37-1 Trade Secret: <input type="checkbox"/> Chemical Name: Argon EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input checked="" type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 24999 Max Daily Amt Code: 06 Avg Daily Amt (lbs): 24999 Avg Daily Amt Code: 06 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[L]Cylinder	[2]Greater than ambient pressure	[7]Cryogenic conditions	CODE 660/ASTROP HYSICS Science Division			
	[L]Cylinder	[2]Greater than ambient pressure	[7]Cryogenic conditions	CODE 690/Solar System Exploration Division			
	[L]Cylinder	[2]Greater than ambient pressure	[7]Cryogenic conditions	CODE 549/Environmental Test Engineering and Integration Branch			
	[L]Cylinder	[2]Greater than ambient pressure	[7]Cryogenic conditions	CODE 553/Detector System Branch			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150247 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 75-45-6 Trade Secret: <input type="checkbox"/> Chemical Name: Chlorodifluoromethane EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input checked="" type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 74999 Max Daily Amt Code: 08 Avg Daily Amt (lbs): 74999 Avg Daily Amt Code: 08 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[A]Above ground tank	[2]Greater than ambient pressure	[6]Less than ambient temperature but not cryogenic	Code 227			
	[E]Plastic or nonmetallic drum	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150250 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 67-66-3 Trade Secret: <input type="checkbox"/> Chemical Name: Chloroform EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: Methane, trichloro- <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input checked="" type="checkbox"/> Simple asphyxiant <input type="checkbox"/> Skin corrosion or irritation <input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 999 Max Daily Amt Code: 03 Avg Daily Amt (lbs): 999 Avg Daily Amt Code: 03 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 541/Materials Eng			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 600/Sciences and Exploration Directorate			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150241 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: N/A Trade Secret: <input type="checkbox"/> Chemical Name: E-85 EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 49999 Max Daily Amt Code: 07 Avg Daily Amt (lbs): 49999 Avg Daily Amt Code: 07 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	CODE 270/Information & Logistics Management Division			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150236 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 8006-61-9 Trade Secret: <input type="checkbox"/> Chemical Name: Gasoline, Unleaded EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 99999 Max Daily Amt Code: 09 Avg Daily Amt (lbs): 99999 Avg Daily Amt Code: 09 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	CODE 270/Information and Logistics Management Division			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150248 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7647-01-0 Trade Secret: <input type="checkbox"/> Chemical Name: <u>Hydrochloric acid</u> EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPC: <input type="checkbox"/> EHS Name: Hydrogen chloride (gas only) <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input checked="" type="checkbox"/>	<input type="checkbox"/> Combustible dust <input checked="" type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 168 Max Daily Amt Code: 02 Avg Daily Amt (lbs): 168 Avg Daily Amt Code: 02 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 600/Sciences and Exploration Directorate			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 553/Detector Development			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 547/Plating Shop			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards																	
Chemical ID: 150237 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7664-39-3 Trade Secret: <input type="checkbox"/> Chemical Name: <b>Hydrofluoric acid</b> EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input checked="" type="checkbox"/> EHS Name: Hydrogen fluoride (anhydrous) <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input checked="" type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)																	
Inventory	Storage Codes & Location																		
Max Daily Amt (lbs): 163 Max Daily Amt Code: 02 Avg Daily Amt (lbs): 163 Avg Daily Amt Code: 02 Max Amt in Largest Container (lbs): No of days onsite: 365	<table border="1"> <thead> <tr> <th>Container Type</th> <th>Pressure</th> <th>Temperature</th> <th>Storage Location</th> <th>Description</th> <th>Is Confidential</th> <th>Max Amt At Location(lbs)</th> </tr> </thead> <tbody> <tr> <td>[N]Plastic bottles or jugs</td> <td>[1]Ambient pressure</td> <td>[4]Ambient temperature</td> <td>CODE 553/DETECT OR System</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location(lbs)	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 553/DETECT OR System							
Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location(lbs)													
[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 553/DETECT OR System																

## Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850

Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150251 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7722-84-1 Trade Secret: <input type="checkbox"/> Chemical Name: Hydrogen peroxide (Conc.< 52%) EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: Hydrogen peroxide (Conc.> 52%) <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input checked="" type="checkbox"/>	<input type="checkbox"/> Combustible dust <input checked="" type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input checked="" type="checkbox"/> Organic peroxide <input checked="" type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 464.73 Max Daily Amt Code: 02 Avg Daily Amt (lbs): 464.73 Avg Daily Amt Code: 02 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 547/Plating Shop			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 553/Detector Development			

## Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850

Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150245 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 67-63-0 Trade Secret: <input type="checkbox"/> Chemical Name: Isopropanol EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPC: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input checked="" type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 24999 Max Daily Amt Code: 06 Avg Daily Amt (lbs): 24999 Avg Daily Amt Code: 06 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 660/Astrophysics Science Division			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 553/Detector Systems Branch			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 549/Environmental Test Engineering and Integration Branch			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150239 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7439-92-1 Trade Secret: <input type="checkbox"/> Chemical Name: Lead EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input checked="" type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 9999 Max Daily Amt Code: 05 Avg Daily Amt (lbs): 9999 Avg Daily Amt Code: 05 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[F]Can	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			
	[R]Other Desc: Battery	[1]Ambient pressure	[4]Ambient temperature	UNINTERRU PTIBLE POWER SUPPLY (UPS)			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150253 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 13463-39-3 Trade Secret: <input type="checkbox"/> Chemical Name: Nickel carbonyl EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input checked="" type="checkbox"/> EHS Name: Nickel carbonyl <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input type="checkbox"/> Skin corrosion or irritation <input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 1 Max Daily Amt Code: 01 Avg Daily Amt (lbs): 1 Avg Daily Amt Code: 01 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 553/Detector Development			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150242 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7697-37-2 Trade Secret: <input type="checkbox"/> Chemical Name: Nitric acid EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: Nitric acid (conc 80% or greater) <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input checked="" type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input checked="" type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 708 Max Daily Amt Code: 03 Avg Daily Amt (lbs): 708 Avg Daily Amt Code: 03 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[D]Steel drum	[1]Ambient pressure	[4]Ambient temperature	CODE 547/PLATIN G SHOP			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 553/DETECT OR System			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 562/Parts, Packaging, and Assembly Tech Office			
	[E]Plastic or nonmetallic drum	[1]Ambient pressure	[4]Ambient temperature	CODE 547/PLATIN G SHOP			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 660/ASTROP HYSICS Science			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 690/SOLAR System Exploration			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150238 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7727-37-9 Trade Secret: <input type="checkbox"/> Chemical Name: Nitrogen EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input checked="" type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input checked="" type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 37885 Max Daily Amt Code: 07 Avg Daily Amt (lbs): 37885 Avg Daily Amt Code: 07 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	CODE 549/Environmental Test Engineering and Integration Branch			
	[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	CODE 541/MATERIALS Engineering			
	[L]Cylinder	[2]Greater than ambient pressure	[7]Cryogenic conditions	UBIQUITOUS, DEWARS UP TO 100 GALLON			
	[L]Cylinder	[2]Greater than ambient pressure	[6]Less than ambient temperature but not cryogenic	UBIQUITOUS, CYLINDERS VARIOUS SIZES			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150246 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 64742-65-0 Trade Secret: <input type="checkbox"/> Chemical Name: Oils EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 481360 Max Daily Amt Code: 10 Avg Daily Amt (lbs): 481360 Avg Daily Amt Code: 10 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location(lbs)
	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	Ubiquitous			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150252 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7782-44-7 Trade Secret: <input type="checkbox"/> Chemical Name: Oxygen EHS: <input type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input type="checkbox"/> EHS Name: <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input checked="" type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 11626 Max Daily Amt Code: 06 Avg Daily Amt (lbs): 11626 Avg Daily Amt Code: 06 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[L]Cylinder	[2]Greater than ambient pressure	[7]Cryogenic conditions	Ubiquitous			
	[L]Cylinder	[2]Greater than ambient pressure	[6]Less than ambient temperature but not cryogenic	Ubiquitous			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150254 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 151-50-8 Trade Secret: <input type="checkbox"/> Chemical Name: Potassium cyanide EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input checked="" type="checkbox"/> EHS Name: Potassium cyanide <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input checked="" type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 161 Max Daily Amt Code: 02 Avg Daily Amt (lbs): 161 Avg Daily Amt Code: 02 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 547/Plating Shop			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 553/Detector Development			
	[I]Fiber drum	[1]Ambient pressure	[4]Ambient temperature	Code 547/Plating Shop			

## Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850

Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 150243 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 143-33-9 Trade Secret: <input type="checkbox"/> Chemical Name: Sodium Cyanide EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input checked="" type="checkbox"/> EHS Name: Sodium cyanide (NaCN) <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input checked="" type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input checked="" type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input checked="" type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input checked="" type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input checked="" type="checkbox"/> Specific target organ toxicity (single or repeated exposure)					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 110 Max Daily Amt Code: 02 Avg Daily Amt (lbs): 110 Avg Daily Amt Code: 02 Max Amt in Largest Container (lbs): No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	is Confidential	Max Amt At Location(lbs)
	[1]Fiber drum	[1]Ambient pressure	[4]Ambient temperature	CODE 547/PLATIN G SHOP			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
 Reporting Period From January 1, 2018 to December 31, 2018

Chemical Description	Physical Hazards	Health Hazards
Chemical ID: 150240 Check if Chemical Information is changed from the last submission: <input checked="" type="checkbox"/> CAS #: 7664-93-9 Trade Secret: <input type="checkbox"/> Chemical Name: Sulfuric acid EHS: <input checked="" type="checkbox"/> Contains EHS: <input type="checkbox"/> Exceeds TPQ: <input checked="" type="checkbox"/> EHS Name: Sulfuric acid (aerosol forms only) <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas Chemical Added On: Check if the chemical is below reporting threshold: <input type="checkbox"/>	<input type="checkbox"/> Combustible dust <input checked="" type="checkbox"/> Corrosive to metal <input type="checkbox"/> Explosive <input type="checkbox"/> Flammable (gases, aerosols, liquids, or solids) <input type="checkbox"/> Gas under pressure <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> In contact with water emits flammable gas <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidizer (liquid, solid or gas) <input type="checkbox"/> Pyrophoric (liquid or solid) <input type="checkbox"/> Pyrophoric gas <input type="checkbox"/> Self-heating <input type="checkbox"/> Self-reactive	<input type="checkbox"/> Acute toxicity (any route of exposure) <input type="checkbox"/> Aspiration hazard <input checked="" type="checkbox"/> Carcinogenicity <input type="checkbox"/> Germ cell mutagenicity <input type="checkbox"/> Hazard Not Otherwise Classified (HNOC) <input type="checkbox"/> Reproductive toxicity <input checked="" type="checkbox"/> Respiratory or skin sensitization <input checked="" type="checkbox"/> Serious eye damage or eye irritation <input type="checkbox"/> Simple asphyxiant <input checked="" type="checkbox"/> Skin corrosion or irritation <input type="checkbox"/> Specific target organ toxicity (single or repeated exposure)

Inventory	Storage Codes & Location						
	Container Type	Pressure	Temperature	Storage Location	Description	Is Confidential	Max Amt At Location (lbs)
Max Daily Amt (lbs): 9999 Max Daily Amt Code: 05 Avg Daily Amt (lbs): 9999 Avg Daily Amt Code: 05 Max Amt in Largest Container (lbs): No of days onsite: 365	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	Code 553/Detector System Branch			
	[R]Other Desc:	[1]Ambient pressure	[4]Ambient temperature	UNINTERRUPTIBLE POWER SUPPLY (UPS)			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 561/Flight Data Systems and Radiation Effects			
	[N]Plastic bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 660/ASTROPHYSICS Science			
	[M]Glass bottles or jugs	[1]Ambient pressure	[4]Ambient temperature	CODE 690/SOLAR System Exploration			
	[E]Plastic or nonmetallic drum	[1]Ambient pressure	[4]Ambient temperature	CODE 547/PLATINUM SHOP			

### Tier II Emergency and Hazardous Chemical Inventory

Facility Name: NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) Facility ID: 1850  
Reporting Period From January 1, 2018 to December 31, 2018

Chemical Amount Range Code & Description		
#	Code	Amount Range
1	01	[01] 0-99
2	02	[02] 100-499
3	03	[03] 500-999
4	04	[04] 1,000-4,999
5	05	[05] 5,000-9,999
6	06	[06] 10,000-24,999
7	07	[07] 25,000-49,999
8	08	[08] 50,000-74,999
9	09	[09] 75,000-99,999
10	10	[10] 100,000-499,999
11	11	[11] 500,000-999,999
12	12	[12] 1,000,000-9,999,999
13	13	[13] 10,000,000- Greater than 10 million

**Rodriguez-ramon, Lixa E. (GSFC-2500)**

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**From:** mdetier2.mde@maryland.gov  
**Sent:** Friday, February 8, 2019 10:20 AM  
**To:** Rodriguez-ramon, Lixa E. (GSFC-2500)  
**Subject:** NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) (Facility ID :1850) 2018 Tier II Report Annual Submission Certified - Online TIER II MANAGER™

This is an Automated Message from the Online TIER II MANAGER™.

At 2/8/2019 10:19:49 AM, 2018 Tier II Report Annual was Certified by Username : User\_538 for NASA - GODDARD SPACE FLIGHT CENTER (ATTN: CODE 250/Lixa Rodriguez-Ramon) (Facility ID:1850) for NASA GODDARD SPACE FLIGHT CENTER (Company ID: 538).  
The Tier II Report Submission ID is 45103

## Community Right To Know

[Community Right-to-Know \(CRTK\)  
Fund](#)  
[Maryland Online Tier II Reporting  
System \(MOTTRS\)](#)  
[CRTK Home](#)

## What is the Emergency Planning and Community Right-to-Know Act?

### Attention Maryland Tier II Facilities

#### \*IMPORTANT FOR 2017 TIER TWO REPORTS\*

#### EVERY CHEMICAL ENTRY MUST BE EDITED FOR THE 2017 REPORTS

The US EPA revised the Section 311 and 312 reporting requirements to reflect the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As a result, the Physical and Health Hazards section of these reports have been expanded from 5 categories to 24. To satisfy these requirements all the owners or operators of covered facilities must submit a revised Section 311 submission and Section 312 Inventory that use the new categories. The Section 311 is a list of the hazardous substances at the facility that is arranged according to hazard categories. The Section 312 report is the Tier Two Emergency and Hazardous Chemical Inventory Report due March 1 of each year.

The Maryland Online Tier Two Reporting System (MOTTRS) has been updated to accommodate the new reporting requirements. We highly recommend that covered facilities begin their reports early. For more information about the new reporting requirements, click [here](#) (leave MDE).

**\*All Tier Two Reports must be submitted online.\***

Owners and operators of Tier Two facilities in Maryland must use the Maryland Online Tier Two Reporting System (MOTTRS). Use of any other reporting format will not fulfill the reporting obligation to the State Emergency Response Commission (SERC).

Submission of a certified Tier Two Report to MDE using MOTTRS fulfills the reporting obligation to the State Emergency Response Commission (SERC). There is no need to mail a signed paper copy of the completed report to MDE. The online submission also fulfills the Local Emergency Planning Committee (LEPC) reporting obligation for all Maryland counties.

Owners or operators of covered facilities should check with their LEPC regarding submission of Tier Two Reports to the local fire departments.

Click [here](#) for a list of Maryland LEPC contacts.

For more information about MOTTRS click [here](#).

If you have any questions, contact Patricia Williams by phone at 410-537-3800 or by email at [Patricia.Williams1@maryland.gov](mailto:Patricia.Williams1@maryland.gov).

### Quick References

- [Community Right to Know Fund](#)
- [Maryland Online Tier Two Reporting System \(MOTTRS\) information](#)
- [Maryland Online Tier II Reporting System](#)
- [CERCLA/EPCRA Reporting of Releases from Animal Waste](#)

The Emergency Planning and Community Right-to-Know Act (EPCRA) is Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and is often referred to as SARA Title III. EPCRA was the United States congressional response to serious chemical incidents that occurred in Bhopal, India and Institute, West Virginia in the two years prior to its enactment. The incident in Bhopal resulted in 2,000 immediate fatalities. While the accident in West Virginia caused no fatalities, the circumstances were similar and aroused concern.

EPCRA was designed to provide all levels of government and the public with information required to plan for a chemical incident. The law was meant as a starting point for an on going dialogue between community representatives, emergency response personnel, and industry. EPCRA requires each state to establish a state emergency response commission (SERC), to designate local emergency planning districts, and to appoint a local emergency planning committee (LEPC) for each district. Industries are required to provide the government with information about their activities with hazardous and toxic chemicals. The SERC and the LEPCs use the information in their emergency planning activities and make it available to the public. In Maryland, MDE serves as the repository for all notifications, reports, and inventories that must be submitted to the SERC. The Maryland SERC designated the 23 counties, Baltimore City and Ocean City as planning districts. An LEPC has been established for each district. [Click here for a list of LEPC and SERC Chairpersons, their addresses and phone numbers.](#)

### What are the EPCRA Reporting Requirements?

#### Section 302 -- Emergency Planning Notification

The owner or operator of any facility with a quantity of a listed Extremely Hazardous Substance (EHS) that meets or exceeds the threshold