Beryllium Tracking Database User Manual

Laboratory for Laser Energetics								
Inventory	Transfer	Receive	FindArticle	Personnel				
			Beryllium	Tracking Database				

- OSHA requires employers to maintain an inventory of hazardous materials.
- The LLE Beryllium Tracking Database (BTD) provides an efficient means of tracking, locating, and recording disposition of Beryllium.
- All Beryllium users should be familiar with the workflow described in this manual.





- Beryllium Tracking Database locations
- Beryllium definitions
- Beryllium Tracking Database flowchart
- Locating inventory
- Transaction history
- Editing inventory items
- Transferring inventory location
- Database access
- Adding new inventory
- Disposal

The Beryllium Tracking Database can be found at these locations

Database locations:

- OMEGA Operations > "<u>Operations</u>"
- EP Operations > "<u>Operations</u>"
- LLE Safety Zone





Beryllium articles are treated as a subset of beryllium items

- Items include foil, film, stalk, or other shapes that may need to be wet-crimp-cut to size
- Articles are items that are pre-cut and ready to be used







Ultra-thin beryllium foil



The Database workflow for Beryllium handling and procedures



The BTD "Inventory" tab generates a report based on either location or item



- <u>Location inventory</u> generates an inventory report for each room authorized to contain beryllium
- <u>Item inventory</u> item location can be searched either by item number or by using the "Find Item" link

Laboratory for Laser Energetics a unique national resource								
Inventory Transfer FindItem History Pers	sonnel Locations							
Beryllium T	Fracking Database							
Select a								
Location Inventory	5106 •							
C Item Inventory	o find an item select <u>Find Item</u> here.							
Ge	nerate Report							

A specific piece of beryllium can be found using many criteria in the "FindItem" tab

Search by:

- PDM number
- CAS number
- Dimensions allows the user to search by size parameters
- Descriptor

aser Energetics								
y Personnel Locations								
Beryllium Tracking Database Find an Item								
search criteria and select 'Search'								
								
T								
in •								
Between and								
Between and								
Between and								
Clear Search Add Item								

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The 'Transactions' link will generate a transaction history report for a specific item

Laboratory for Laser Energetics	
nventory Transfer FindItem History Personnel Locations Reconcile	ndresource
Beryllium Tracking Database <i>Find an Item</i>	
Enter the search criteria and select 'Search' Item Number 1001 PDM Document CAS T	
Units in ▼ Thickness Between and and	Beryllium Tracking Database
Width Between and	Transaction History Report
Descriptor	Enter the search criteria and select 'Search'
Clear Search Add Item	Item 1001
	Source
Transactions 2001 NONE 025 mm 5 mm 5 mm 7440-41-7 UNKNOV	Dest.
	Dates From: to
	Clear Search
	Item Source Destination
	Number Loc Area Loc Area Qty By When Comments
	1001 6106 SW1 DRAWER 7 tcla 06/30/2017 15:28 Reconcile
	1001 6106 SW1 DRAWER 7 ahya 12/07/2016 10:11 Reconcile
	1001 6106 SW1 DRAWER 7 tkli 12/05/2016 16:37 Reconcile

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The 'History' tab can also provide a transaction report



Populating information to any one of the criteria boxes produces a transaction report for that item

Labo	orato	ry for Laser Energ	getics	e no	ation	alre	esc					
Inventory	Transfer	FindItem History Personnel Loca	tions Recor	ncile								
		Beryllium Tracking Datab Transaction History Rep	ase Labor	ato	orv f	or	Laser	E	ne	eraetic	s	
		Enter the search criteria and selec	Inventory Tr t	ransfer	FindIte	m I	History Pers	onne	el I	♥a uniq Locations Red	ue natic :oncile	nal res
		Item 1001 Source				Bery Tra	llium Trac nsaction H	king liste	g Da ory I	itabase Report		
		Dest. Dates From: to			Ente Item	r the	search criter	ia a	nd s	elect 'Search'		
		Clear Search			Source Dest.		▼ ▼]	
					Dates	FIUIII.	Clear	Sear	rch			
			N	ltem lumber	Source Loc Area	Loc	Destination Area	Qty	Ву	When	Comments	
			1	001		6106	SW1 DRAWER	7	tcla	06/30/2017 15:28	Reconcile	
			1	001		6106	SW1 DRAWER	7	anya tkli	12/05/2016 16:37	Reconcile	

Information for a specific piece of beryllium can be edited in the "FindItem" tab



The PDM number and descriptor can be added to the existing item

Laboratory for Laser Energetics								
Inventory Transfer FindItem	History Personnel Locations							
	Beryllium Tracking Database <i>Find an Item</i>							
Ed	it the characteristics of the Item # 1000							
PDM								
Thickness	.0075							
Length/Diamete	r 5							
Width	5							
Units	◯ in ◉ mm							
CAS Number	● 7440-41-7 ○ 7440-41-7-LLNL							
Descriptor								
	Create Item Update Item							

"Find Item" links are located in the "Inventory" tab and the "Transfer" tab

Transfer FindItem History Personnel Locations Beryllium Tracking Database Select a Report and 'Go'. © Location Inventory 6106 • © Item Inventory To find an item select Find Item ere.	Laboratory for Laser Energetics									
Beryllium Tracking Database Select a Report and 'Go'. Location Inventory 6106	Inventory Trans	sfer Findltem	History	Personnel	Locations					
Generate Report	Beryllium Tracking Database Select a Report and 'Go'. Location Inventory 6106 Location Inventory To find an item select Find Item ere. Generate Report									

Laboratory for Laser Energetics									
Inventory Transfer	FindItem	History	Personnel	Locations					
Beryllium Tracking Database <i>Transaction Log</i> To find an item, select Find Itempere.									
	То с	heck inv	entory, selec	ct <u>Check Inventory</u> here.					
Item									
Quantity				Storage Area					
Source	Materion		•	T					
Destination			•	T					
Comments									
			Sub	mit					
			5001						

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Selecting "location" or "area" link in the 'FindItem' tab will auto-fill information to perform a Transfer



- Click on the location or area hyperlink to indicate the item to be transferred
- Quantify how many items you would like to transfer and select the destination location

Laboratory for Laser Energetics	Laboratory for Laser Energetics	CO
Inventory Transfer FindItem History Personnel Locations	Inventory Transfer Findlam History December Locations	Ce
Beryllium Tracking Database	inventory Transfer Prinditeni Fistory Personnei Locations	
Find an Item	Beryllium Tracking Database	
Enter the search criteria and select 'Search'	Transaction Log	
Item Number		
PDM Document 🔹	To find an item, select Find Item here.	
CAS		
Units in T	To check inventory select Check Inventory here	
Thickness Between and	Nore 1000 the three the second s	
Length/Diameter Between and	1000	
Width Between and	Quantity Storage Area	
Descriptor	Source 1228 - X-Ray Diagnostic Lab 🔻	
Clear Search Add Item	Destination T	
Item PDM Thick Length/Diameter Width CAS Descriptor Loc. Area by	Comments	
Transactions 1000 NONE 5 mm mm mm 1228 4 6106 SW1 DRAWER 3	Submit	

The "Transfer" tab is used to move beryllium from one database location to another



After the transfer has been submitted, the transaction is complete

Laboratory for Laser Energetics									
Inventory Transfer	FindItem	History	Personnel	Locations					
Beryllium Tracking Database <i>Transaction Log</i>									
To check inventory select Check Inventory here									
ltem									
Quantity					Storage Area				
Source	Materion		•		•				
Destination			•		•				
Comments									
			Subr	nit					

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Only approved users of beryllium are allowed to access the database



Personnel access will be maintained by the Mechanical Engineering Procurement Specialist (MEPS) and consist of:

- Users Anyone who transfers and receives beryllium articles
- Database Administrators those who are allowed to add and remove users
- Officers Safety Officers
- Mechanical Engineers Mechanical engineers who are involved with beryllium design and development

Laboratory for Laser Energetics									
Inve	ntory	Transfer	FindItem	History	Personnel	•			
Beryllium Tracking Database									
		Name		ID	E-Mail	Facility	Authority		

The 'Location' tab provides the rooms authorized to contain beryllium



This tab provides the room number, description of the room, and storage area(s)

La	Laboratory for Laser Energetics										
Invento	ry Transfer Fin	ndltem History Personnel Locations	e nanonaries	00106							
Beryllium Tracking Database											
	ID	Descrip	Storage 1	Storage 2	Storage 3	Storage 4	Storage 5]			
	1228	X-Ray Diagnostic Lab	BE DRAWER					Save_1228			
	146	La Cave	SSCA DRY BOX	VIDMAR DRAWER				Save_146			
	247	Omega Target Bay	BE DRAWER					Save_247			
	2828	Target Fab.	BE DRAWER					Save_2828			
	6106	EP Workshop	SW1 DRAWER					Save_6106			
								Save_New			

Only the Mechanical Engineering Control Specialist can enter new items into the BTD

- In the "Transfer" tab select the source "Materion"
- Select "Find Item" to enter the dimensions of a new article

Laboratory for Laser Energetics a unique national resource								
Inventory Transfer FindItem History Personnel								
Beryllium Tracking Database Transaction Log								
To find an item, select Find Item here.								
To check inventory, select <u>Check Inventory</u> here.								
Item								
Quantity Storage Area								
Source Materion								
Destination								
Comments								
Submit								

*Materion is the beryllium manufacturer used by LLE- 44036 South Grimmer Blvd, Fremont, CA 94538

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"Add Item" in the "FindItem" tab will allow the information of a new item to be entered

• Select "Add Item":

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Inventory Transfer Fin	ditem History Pers	ionnel I	Locations	Reconcile				
	Berv	llium T	racking	Database				
	Find on Kom							
			a an no					
	Enter the search criteria and select 'Search'							
	Item Number		1					
	PDM Document		Ŧ					
	CAS							
	Units	in 🔻						
	Chickness	Between		and				
	Length/Diameter	Between		and				
	Width	Benneen		and				
	Descriptor		<u> </u>					

• Enter relevant information

ormation	Laboratory for Laser Energetics								
	Inventory	Transfer	FindItem	History	Personnel	Locations	Reconcile		
	Beryllium Tracking Database Find an Item								
	Enter the characteristics of the new Item								
			PD	N					
			Thick	iess					
			Length/D	iameter					
			Wid	th					
			Uni	ts 💿	in 🔍 mm				
			CAS Nu	mber 🤇	7440-41-7 🔘	7440-41-7-LLI	NL		
			Descri	ptor					
n″					~ (Create Item	\triangleright		

Click "Create Item"

Use the "Transfer" tab to dispose of items



To discard an item, perform a "Transfer" and select "Disposal" as the destination

Laboratory for Laser Energetics a unique national resource									
Inventory Transfer	FindItem	History	Personnel						
		Berylli	um Tracking Database						
Transaction Log									
To find an item, select <u>Find Item</u> here.									
	To ch	eck inven	tory, select <u>Check Inventory</u> here.						
ltem									
Quantity			Storage Area						
Source	Materion <		V						
Destination	1228 146 247 2828								
Comments	6106 Disposal)							
			Submit						

Physical inventory is reconciled in the BTD every 6-months by the Chemical Safety Co-op Student



- The reconciliation process ensures that the reported amount of beryllium in each area matches the physical inventory and provides an opportunity to make database corrections
- These updates also refresh the LLE Chemical Inventory Database

2	CASNUMBER -	NAME 🚽	ACQUIRED -	INVENTORIED -	QUANTITY -	MEASURE -	LOCATION -	STORAGEARE -
	7440-41-7	BERYLLIUM	1/14/2015	1/5/2015	28.651687013	g	6106	SW1 DRAWER
	7440-41-7	BERYLLIUM	1/14/2015	1/9/2015	2241.4176	g	2828	BE DRAWER
	7440-41-7	BERYLLIUM	1/14/2015	1/13/2015	43.563304772	g	247	BE DRAWER
	7440-41-7	BERYLLIUM	1/14/2015	1/3/2015	11.2376	g	1228	BE DRAWER