CERS SLEUTHS & CALARP CLUES:

SEARCHING FOR HIDDEN CALARP SITES

W-A2
March 26, 2025

Alvin Dong, RMPPS
Marco Escobedo, unbeknownst to him, guest speaker
Minh Le, Supervising Hazardous Materials Specialist
Alvin Lal, Stanislaus CUPA Manager

27th California Unified Program
Annual Training Conference
March 24-27, 2025

OBJECTIVE

- Identify unknown CalARP facilities

Using:

- Knowledge
- New information
- Data bases/referrals

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

Introduction

First Half

Education – Brief Risk Management Overview

Class – How to obtain Data

Data Bases/CERS – Prepping the Data

Tips & Tricks

Where's Wally?

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Education

Earlier: Flixborough

1984: Bhopal

Background

1985: Excel,
MS Windows,
Disclosure,
RMPP

1991: List of Lists

Background

1996: RMP Rule Section 112(r)

1997: RMPP replaced with CalARP

Official website of the State of California

Contact Us

CERS California Environmental Reporting System

California Environmental Protection Agency

Businesses | Regulators | Announcements | EDT | Resources | CERS NextGen | About CERS

CERS Central

CalEPA California Environmental

Welcome to the California Environmental Reporting System (CERS)

Business Portal Sign In

Regulator Portal Sign In

Regulator Training Portal Sign In

Find Regulator

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There was more to RMP…

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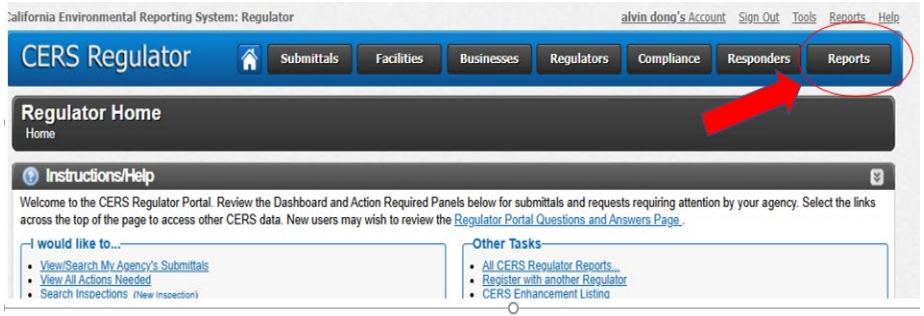
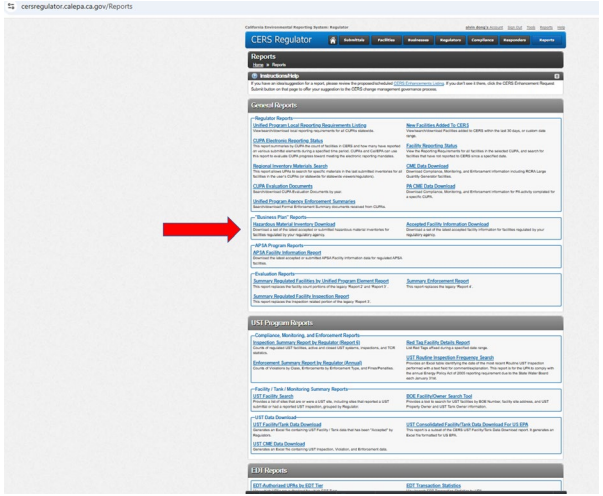
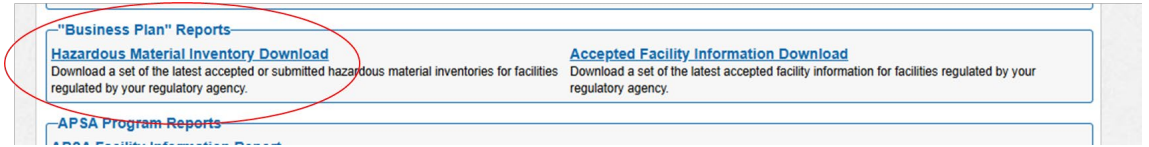
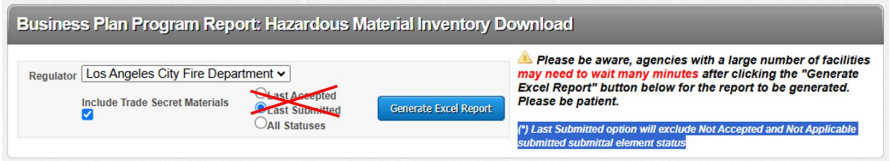
Class: How to obtain your data

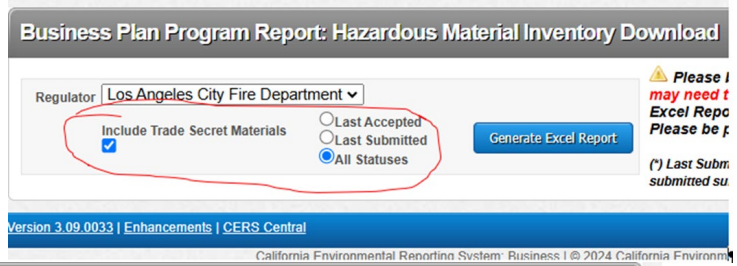


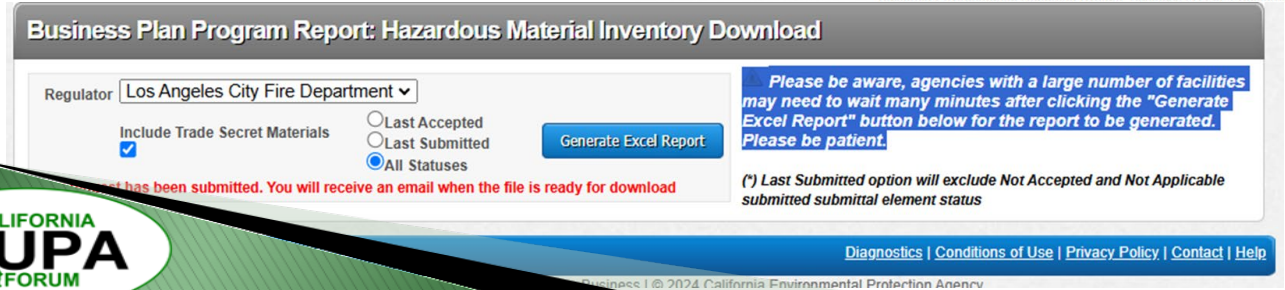
The Process: it's all about the process











Warning:
data may/
will contain
really, really
old stuff

A few moments later…

Wait for the email…

Search Current Mailbox | Current Mailbox

All | Unread | By Date

Today

CERS Automated Me…
Deferred Job RegulatorHM… 10:38 AM
alvin dong, Your request for

Minh Le
Re: Sleuths 10:31 AM
Let me look over it and I'll

NYT Wirecutter
An everyday necklace we l… 10:06 AM

Reply | Reply All | Forward

CA

CERS Automated Messaging - DO NOT REPLY <DoNot.ReplyTo.Cers@calepa.ca.gov>

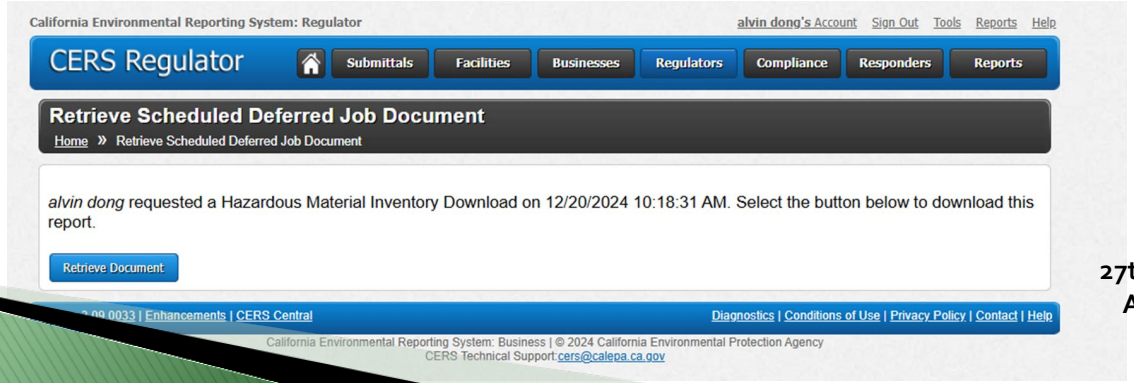
Deferred Job RegulatorHMIDownload Request

alvin dong,

Your request for Los Angeles City Fire Department Hazardous Material Inventory Download is now available. Follow the link below to sign in to CERS and download the document.
https://cersregulator.calepa.ca.gov/1031/RetrieveScheduledDeferredJobDocument/5534

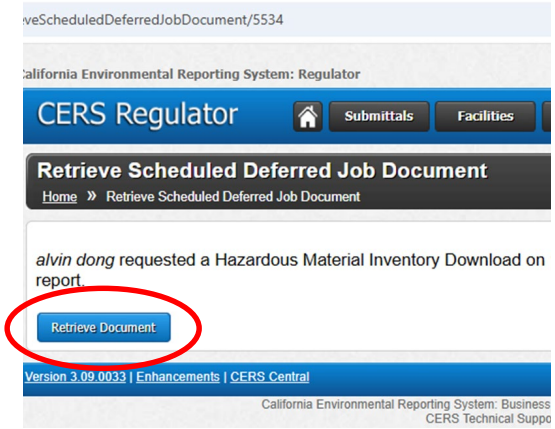
This is an automated email sent from the CERS System. Please DO NOT REPLY.

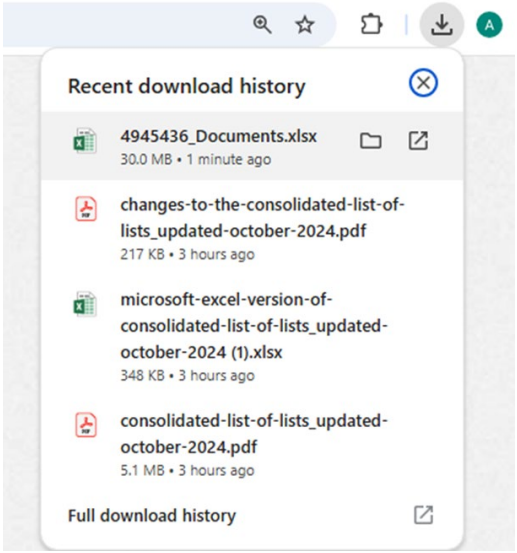
This is a courtesy email sent to you from the **California Environmental Reporting System**
http://cers.calepa.ca.gov/
Contact: CERS Technical Assistance (cers@calepa.ca.gov)



Powerpoint—what's next?

Is he serious…





First half

AGENDA

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Be Prepared

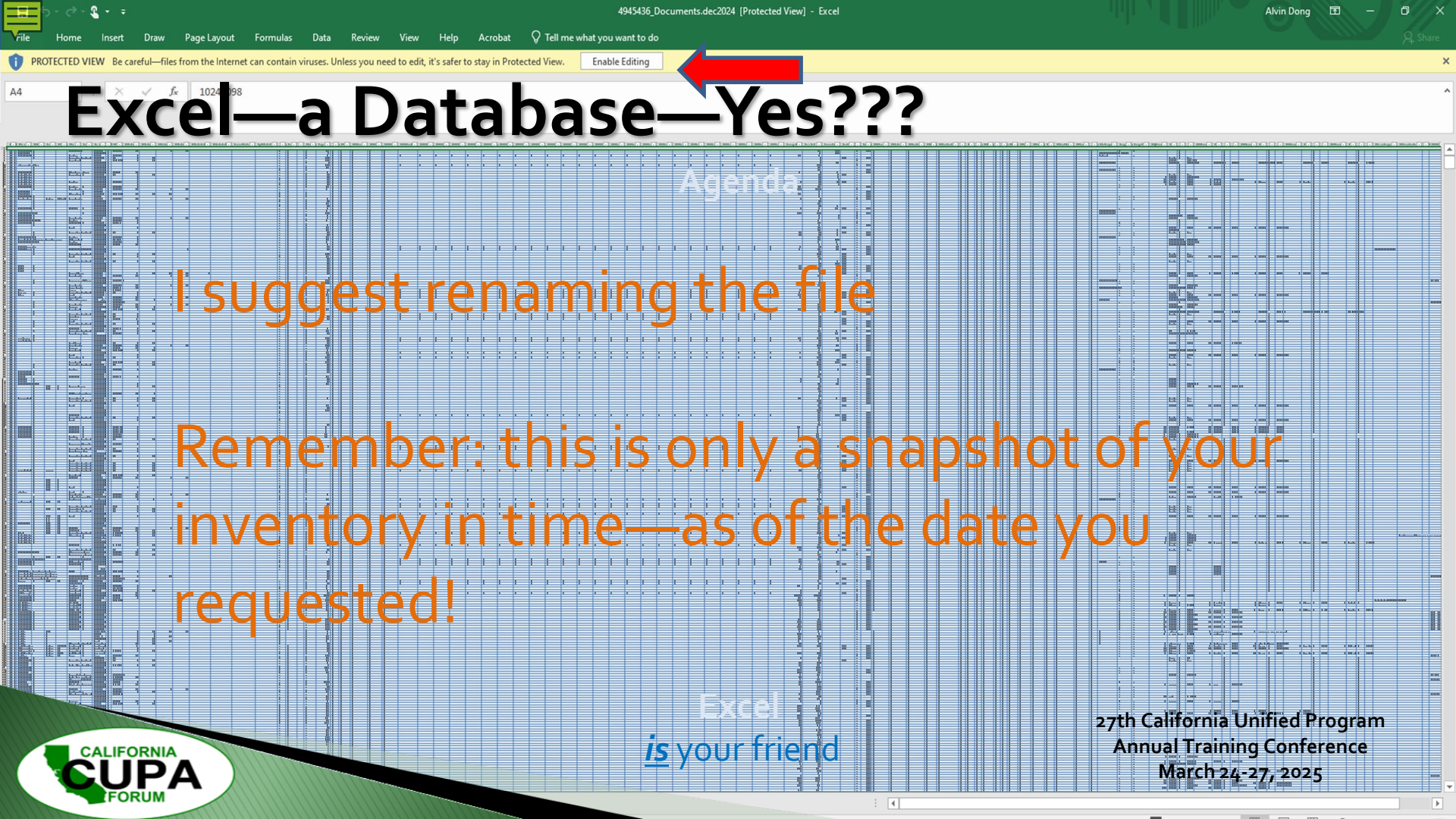
Rename & Save the download

Excel is a Spreadsheet vs Database

Minimize the number of programs running

The greater the number of lines the more important

Save often—the file is prone to crashing…


4945436_Documents.dec2024 [Protected View] - Excel
Alvin Dong
File Home Insert Draw Page Layout Formulas Data Review View Help Acrobat Tell me what you want to do
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
A4
Excel—a Database—Yes???
Agenda
I suggest renaming the file
Remember: this is only a snapshot of your inventory in time—as of the date you requested!
Excel
is your friend
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Provisos…MS Excel

What it is:
Spreadsheet

- Store Rows & Columns
- Organize
- Analyze
- Automate calculations

What it is not:
Database

- Store Tables
- Organize
- Maintain
- Ensure Integrity

https://www.excelandaccess.com/blog/excel-is-not-a-database/#:~:text=Excel%20can%20do%20much%20of,an%20alternative%20to%20a%20database

https://baserow.io/blog/database-instead-of-excel

Quid Pro Quos…MS Excel

Data sets: Arranged by rows

Data values: COLUMNS

Dos:

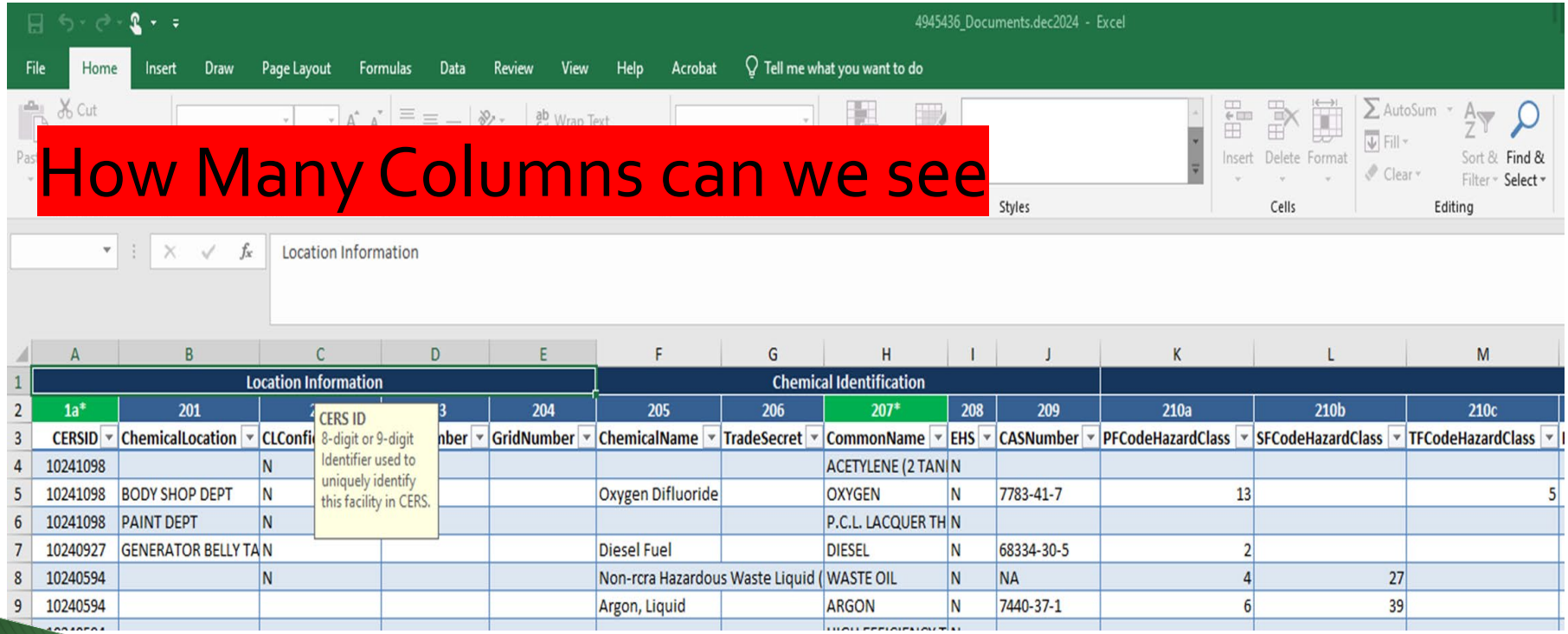
- Save **FREQUENTLY**
- Sort **Everything**
- Maintain data integrity
- Sort from Column A
- Include all Columns
- Save consistently
- Leave breadcrumbs

Don’ts:

- Break the sheet
- Sort a single column
- Haphazard
- Undisciplined
- Careless

Assumption—all Sleuthers have a working knowledge of Excel

Limitations



	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Location Information					Chemical Identification							
2	1a*	201			204	205	206	207*	208	209	210a	210b	210c
3	CERSID	ChemicalLocation	CLConfi	nber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumber	PFCodeHazardClass	SFCodeHazardClass	TFCodeHazardClass
4	10241098		N					ACETYLENE (2 TAN	N				
5	10241098	BODY SHOP DEPT	N			Oxygen Difluoride		OXYGEN	N	7783-41-7	13		5
6	10241098	PAINT DEPT	N					P.C.L. LACQUER TH	N				
7	10240927	GENERATOR BELLY TA	N			Diesel Fuel		DIESEL	N	68334-30-5	2		
8	10240594		N			Non-rcra Hazardous Waste Liquid (		WASTE OIL	N	NA	4	27	
9	10240594					Argon, Liquid		ARGON	N	7440-37-1	6	39	

Limitations

Corrollary 1 Most sleuths have little working knowledge of Excel…

Caveats

Excel is a Spreadsheet
Data are treated as formulas
CAS Numbers are not numbers Excel recognizes
Dates are problematic

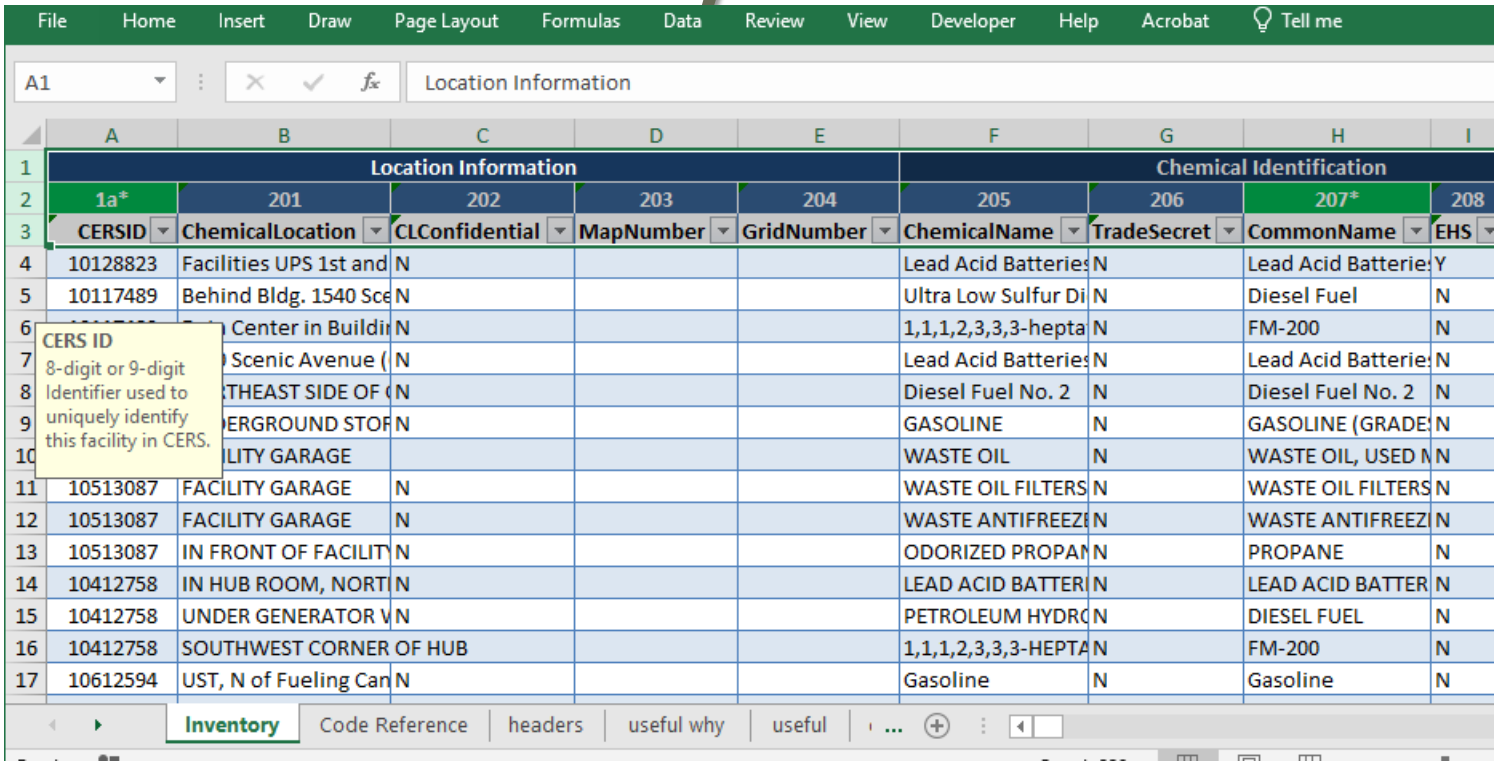
Data ≠ VALUE

Numbers ≠ Text

Data =Text = Codes

Numbers have <u>intrinsic</u> value

Quid Pro Quo—Wait, What?



File Home Insert Draw Page Layout Formulas Data Review View Developer Help Acrobat Tell me

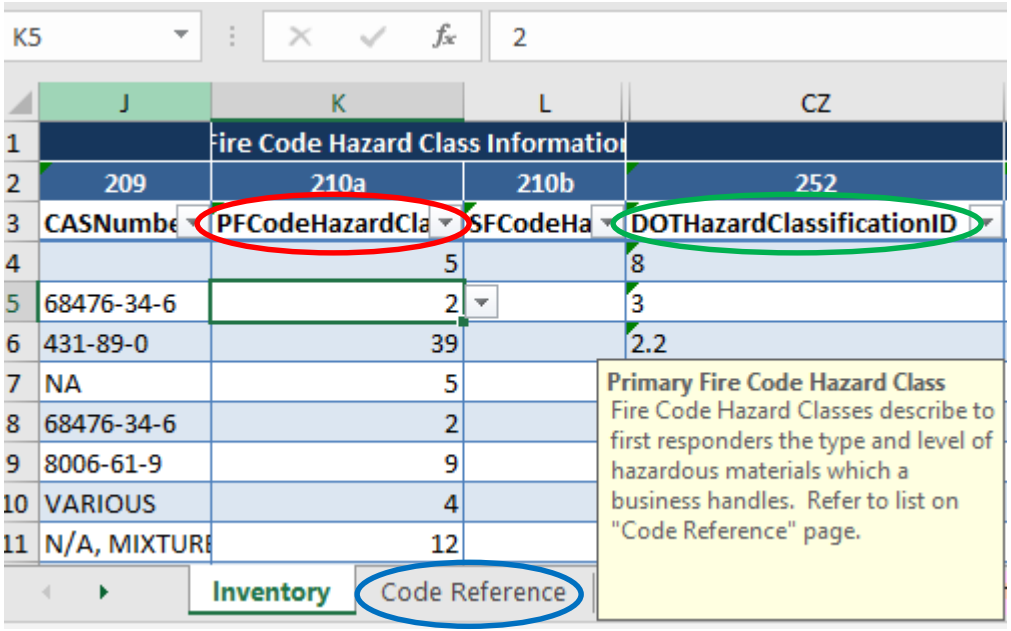
A1 | Location Information

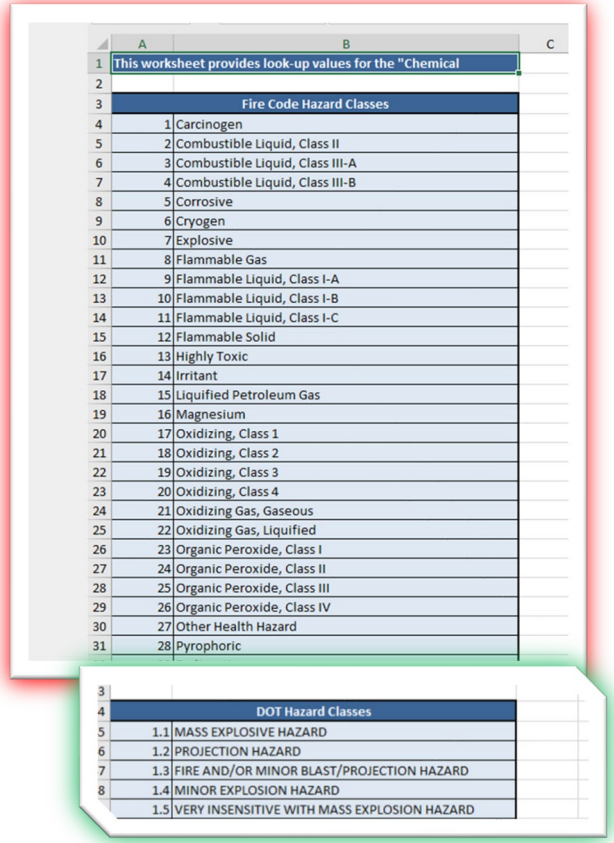
	A	B	C	D	E	F	G	H	I
1	Location Information					Chemical Identification			
2	1a*	201	202	203	204	205	206	207*	208
3	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS
4	10128823	Facilities UPS 1st and	N			Lead Acid Batteries	N	Lead Acid Batterie	Y
5	10117489	Behind Bldg. 1540 Sce	N			Ultra Low Sulfur Di	N	Diesel Fuel	N
6		Center in Buildi	N			1,1,1,2,3,3,3-hepta	N	FM-200	N
7		Scenic Avenue (	N			Lead Acid Batteries	N	Lead Acid Batterie	N
8		THEAST SIDE OF (	N			Diesel Fuel No. 2	N	Diesel Fuel No. 2	N
9		ERGROUND STOF	N			GASOLINE	N	GASOLINE (GRADE	N
10		LITY GARAGE				WASTE OIL	N	WASTE OIL, USED N	N
11	10513087	FACILITY GARAGE	N			WASTE OIL FILTERS	N	WASTE OIL FILTERS	N
12	10513087	FACILITY GARAGE	N			WASTE ANTIFREEZE	N	WASTE ANTIFREEZ	N
13	10513087	IN FRONT OF FACILIT	N			ODORIZED PROPAN	N	PROPANE	N
14	10412758	IN HUB ROOM, NORT	N			LEAD ACID BATTER	N	LEAD ACID BATTER	N
15	10412758	UNDER GENERATOR V	N			PETROLEUM HYDRO	N	DIESEL FUEL	N
16	10412758	SOUTHWEST CORNER OF HUB				1,1,1,2,3,3,3-HEPTA	N	FM-200	N
17	10612594	UST, N of Fueling Can	N			Gasoline	N	Gasoline	N

CERS ID
8-digit or 9-digit Identifier used to uniquely identify this facility in CERS.

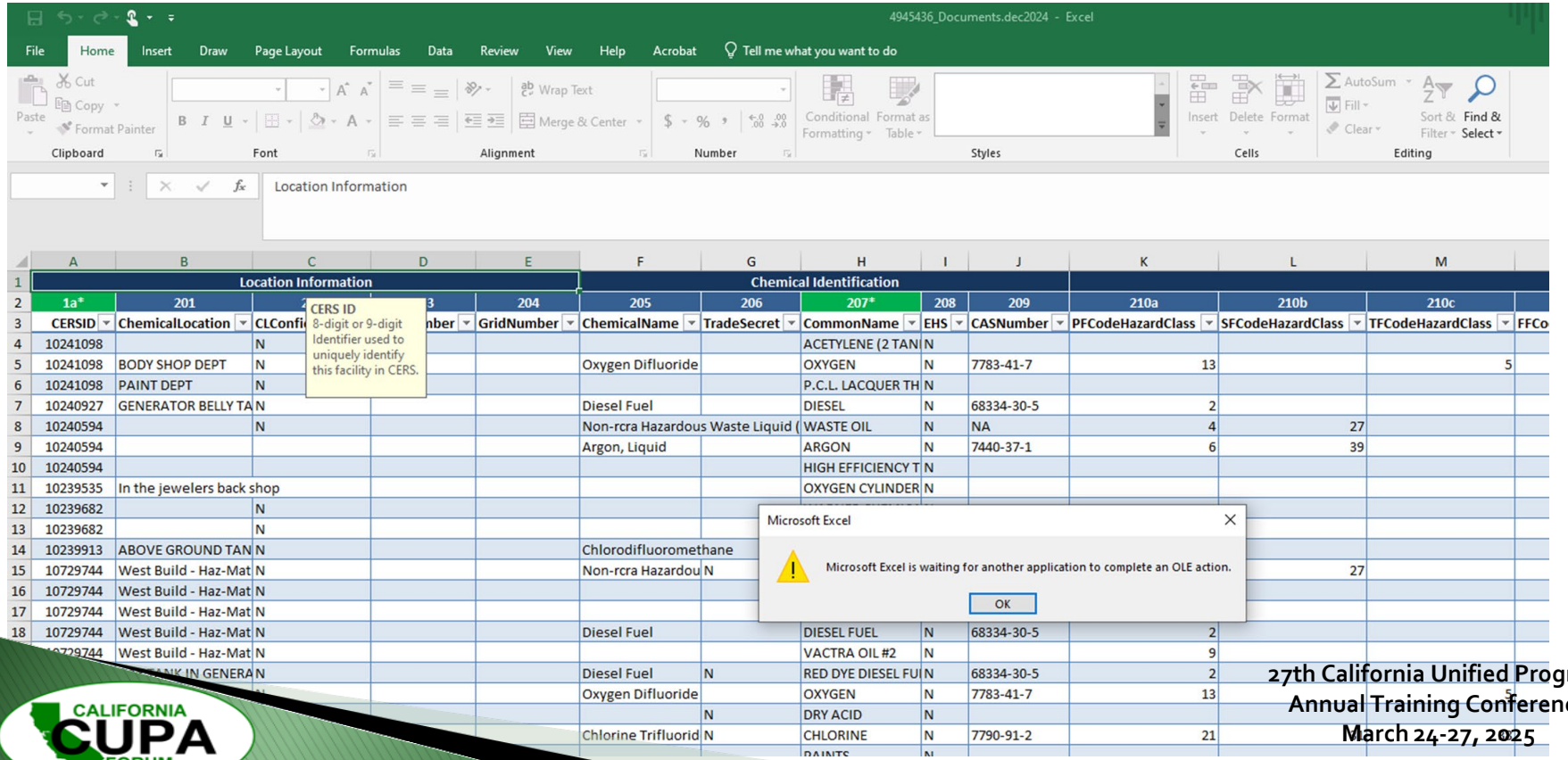
Inventory | Code Reference | headers | useful why | useful | ...

Quid Pro Quo—Huh?





Quid Pro Quo—OLE?



Location Information					Chemical Identification								
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10241098		N					ACETYLENE (2 TAN	N					
10241098	BODY SHOP DEPT	N			Oxygen Difluoride		OXYGEN	N	7783-41-7	13		5	
10241098	PAINT DEPT	N					P.C.L. LACQUER TH	N					
10240927	GENERATOR BELLY TA	N			Diesel Fuel		DIESEL	N	68334-30-5	2			
10240594		N			Non-rcra Hazardous Waste Liquid (		WASTE OIL	N	NA	4	27		
10240594					Argon, Liquid		ARGON	N	7440-37-1	6	39		
10240594							HIGH EFFICIENCY T	N					
10239535	In the jewelers back shop						OXYGEN CYLINDER	N					
10239682		N											
10239682		N											
10239913	ABOVE GROUND TAN	N			Chlorodifluoromethane								
10729744	West Build - Haz-Mat	N			Non-rcra Hazardou	N					27		
10729744	West Build - Haz-Mat	N											
10729744	West Build - Haz-Mat	N											
10729744	West Build - Haz-Mat	N			Diesel Fuel		DIESEL FUEL	N	68334-30-5	2			
10729744	West Build - Haz-Mat	N					VACTRA OIL #2	N		9			
	ANK IN GENERA	N			Diesel Fuel	N	RED DYE DIESEL FU	N	68334-30-5	2			
					Oxygen Difluoride		OXYGEN	N	7783-41-7	13		5	
						N	DRY ACID	N					
					Chlorine Trifluorid	N	CHLORINE	N	7790-91-2	21		5	
							PAINTS	N					

Quid Pro Quo—oh no…

	4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4				
					ACETYLENE (2 TAN	N					

Task Manager

File Options View

Processes | Performance | App history | Startup | Users | Details | Services

Name	Status	33% CPU	50% Memory	0% Disk	0% Network	0% GPU	GPU engine	Power usage	Power usage t...
Apps (12)									
Adobe Acrobat 2020 (32 bit) (8)		0.2%	41.0 MB	0 MB/s	0 Mbps	0%		Very low	Very low
EnvisionConnect(v5.6.4.23) (32 ...		0%	17.0 MB	0 MB/s	0 Mbps	0%		Very low	Very low
EnvisionConnectRemote(v5.6.4....		0.1%	45.8 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Google Chrome (32 bit) (141)		1.1%	7,916.4 MB	0.1 MB/s	0.1 Mbps	0.1%	GPU 0 - 3D	Very low	Very low
Microsoft Excel (5)	Not responding	17.7%	5,043.5 MB	0 MB/s	0 Mbps	0%		Very high	Low
Microsoft Outlook		0.1%	161.3 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Microsoft Word (3)		1.2%	266.5 MB	0 MB/s	0 Mbps	0%		Very low	Very low
PowerToys.Settings		0%	5.1 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Snagit (3)		0.3%	205.1 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Snagit Editor		0%	236.0 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Task Manager		0.4%	37.3 MB	0 MB/s	0 Mbps	0%		Very low	Very low
Windows Explorer (2)		0%	192.6 MB	0 MB/s	0 Mbps	0%		Very low	Very low

End task

Windows

An error has occurred. To continue:

Press Enter to return to Windows, or

Press CTRL+ALT+DEL to restart your computer. If you do this,
you will lose any unsaved information in all open applications.

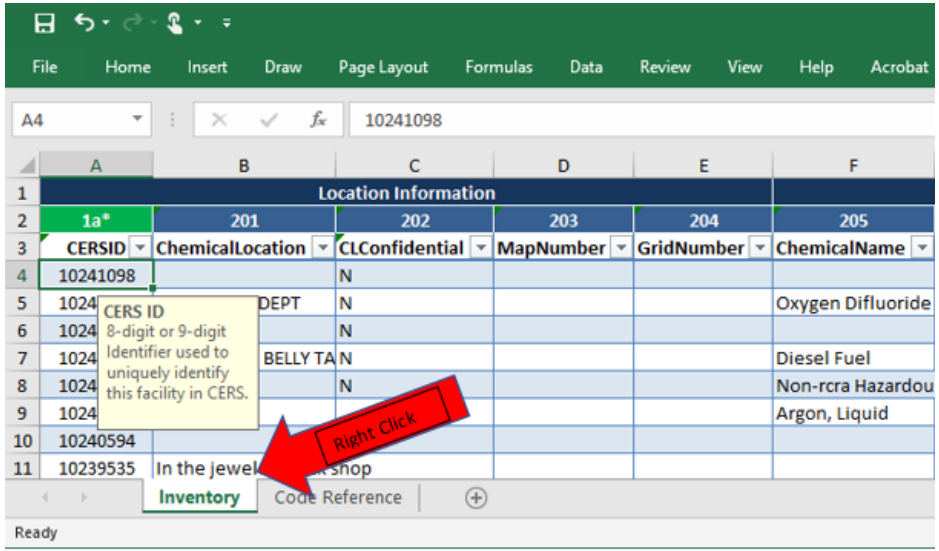
Error: 0E : 016F : BFF9B3D4

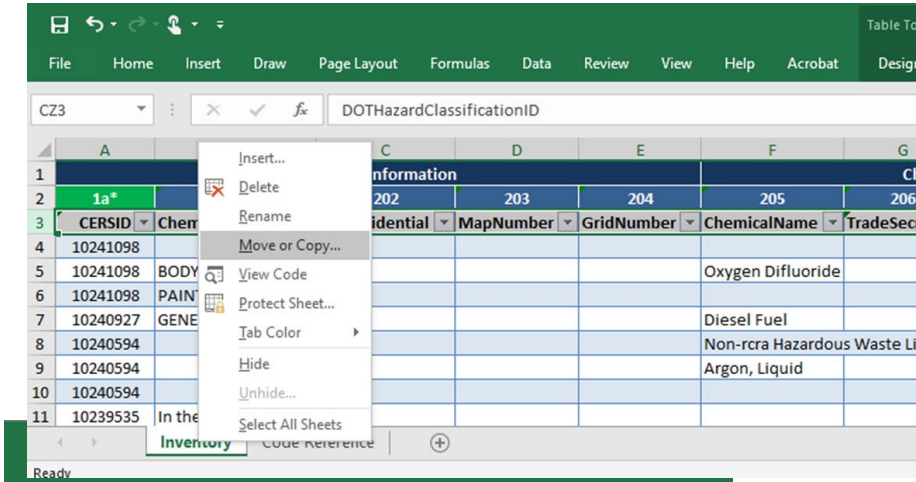
Press any key to continue _

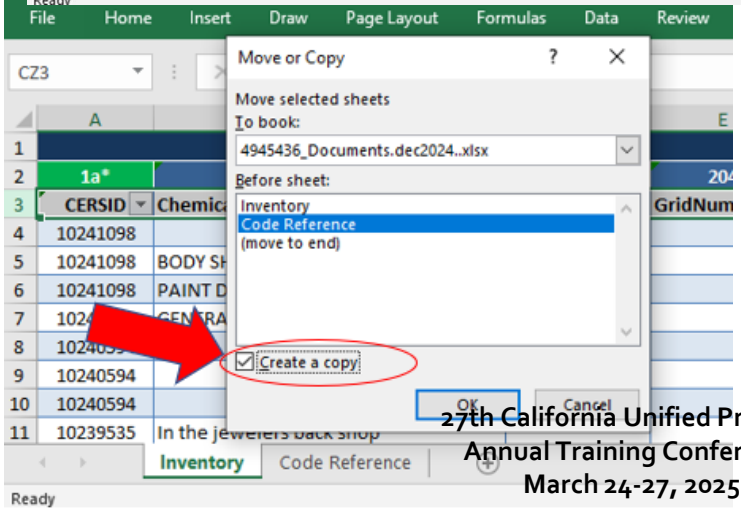
Quid Pro Quo—oh no--OK

Hit the Griddy

Create Backups







First half

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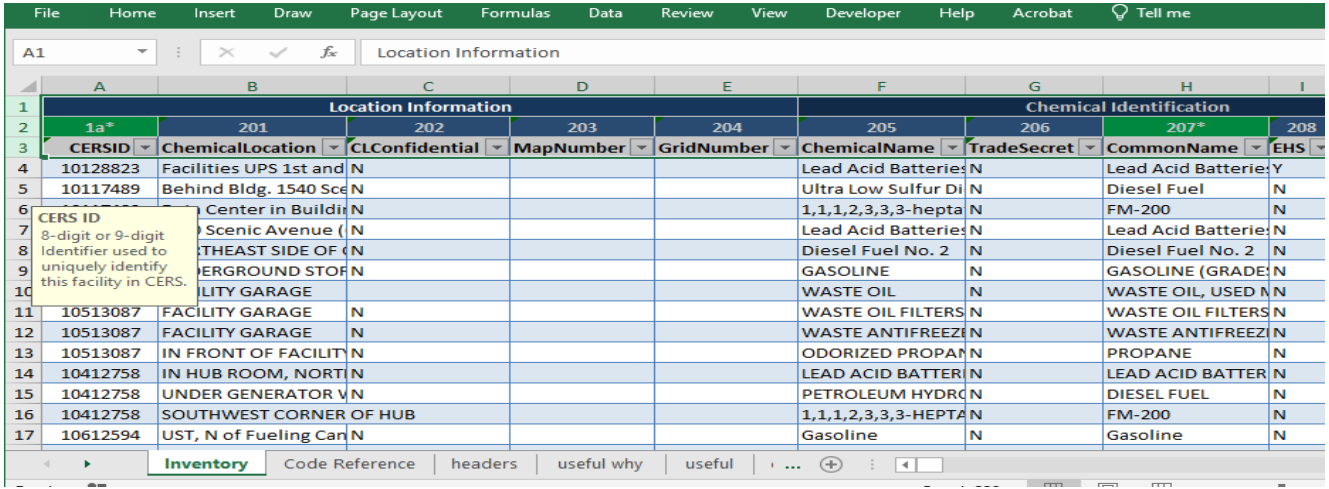

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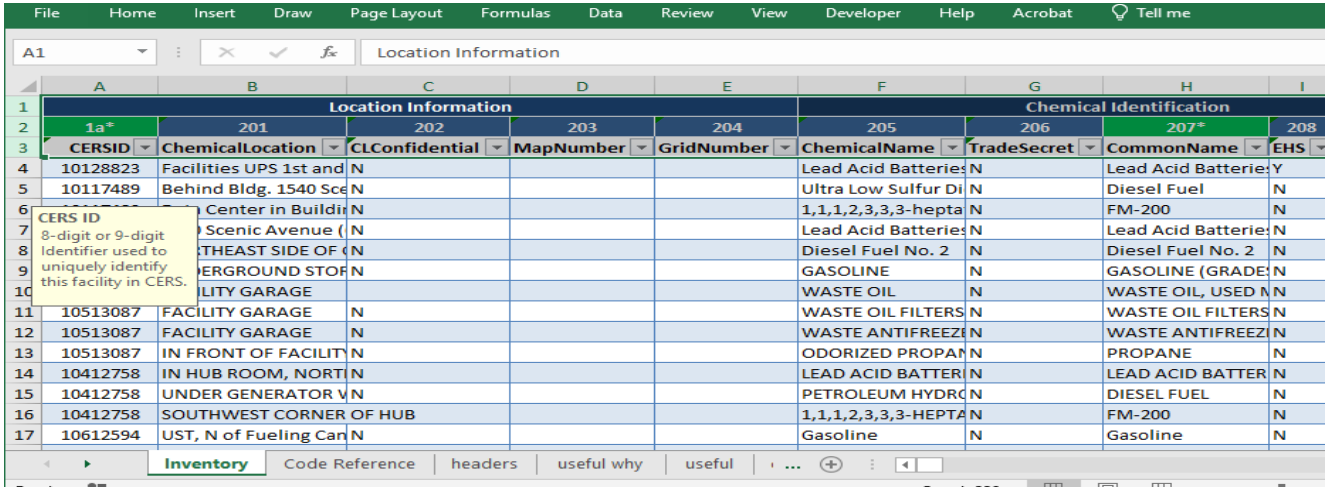

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7		Scenic Avenue (	N			Lead Acid Batteries	N	Lead Acid Batteries	N
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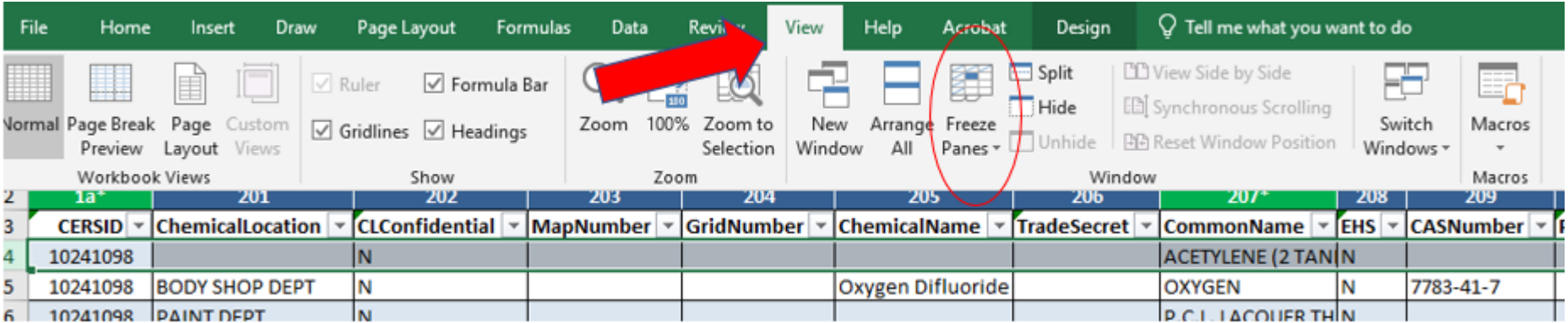
Tricks & Tips

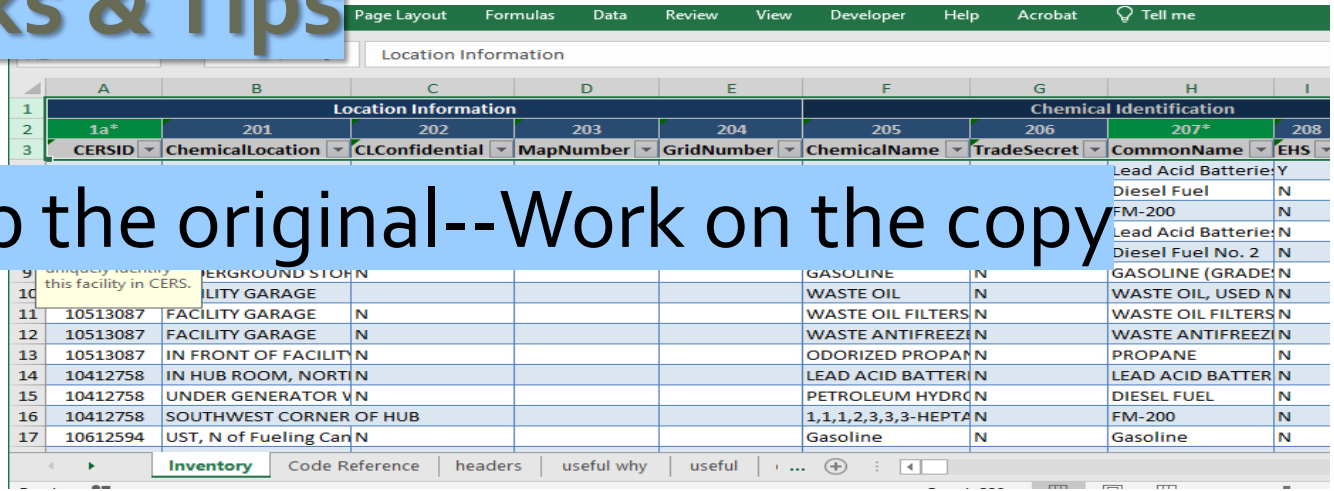
Fix the Headers

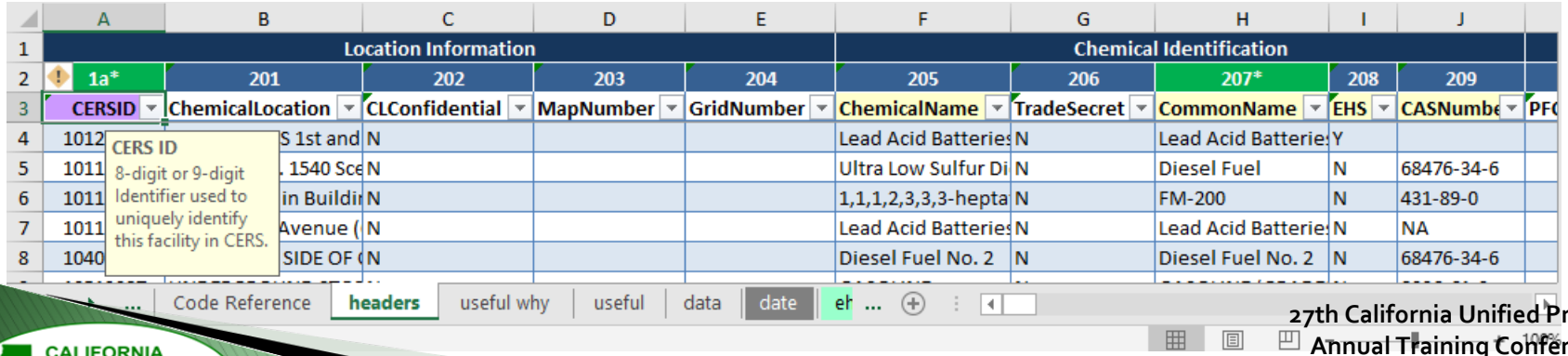


1a*	201	202	203	204	205	206	207*	208	209
CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumber
10241098		N					ACETYLENE (2 TAN	N	
10241098	BODY SHOP DEPT	N			Oxygen Difluoride		OXYGEN	N	7783-41-7
10241098	PAINT DEPT	N					P.C.L. LACQUER TH	N	

Tricks & Tips

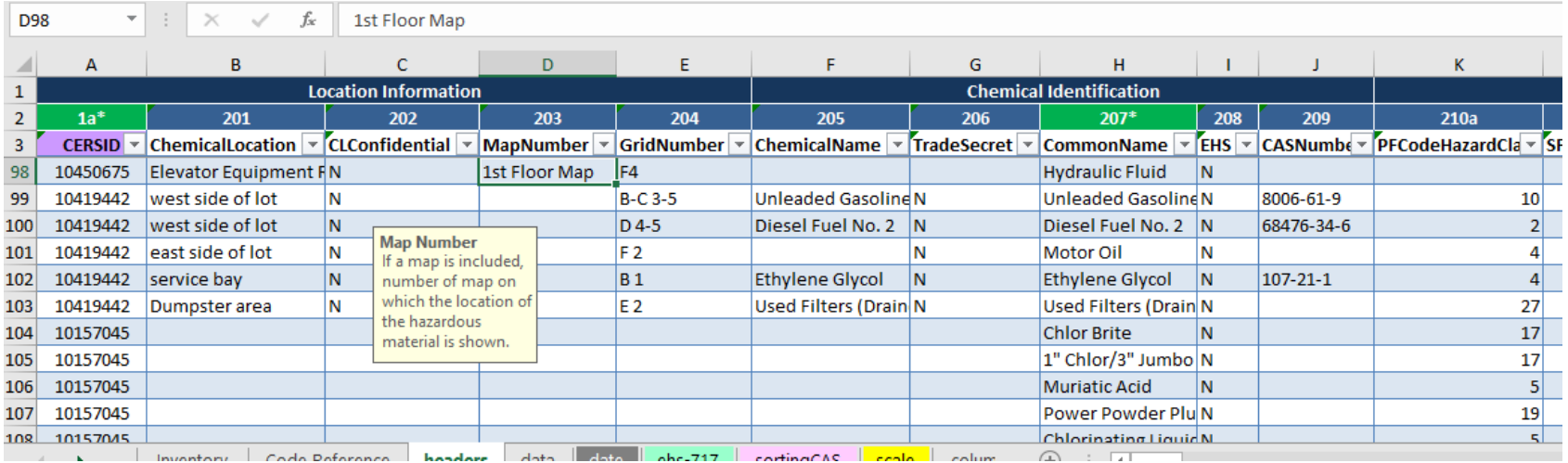
Keep the original--Work on the copy





Tricks & Tips

DC columns? 4*26+3=107



D98 | 1st Floor Map

	A	B	C	D	E	F	G	H	I	J	K
1	Location Information					Chemical Identification					
2	1a*	201	202	203	204	205	206	207*	208	209	210a
3	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumbe	PFCodeHazardCla
98	10450675	Elevator Equipment F	N	1st Floor Map	F4			Hydraulic Fluid	N		
99	10419442	west side of lot	N		B-C 3-5	Unleaded Gasoline	N	Unleaded Gasoline	N	8006-61-9	10
100	10419442	west side of lot	N		D 4-5	Diesel Fuel No. 2	N	Diesel Fuel No. 2	N	68476-34-6	2
101	10419442	east side of lot	N		F 2		N	Motor Oil	N		4
102	10419442	service bay	N		B 1	Ethylene Glycol	N	Ethylene Glycol	N	107-21-1	4
103	10419442	Dumpster area	N		E 2	Used Filters (Drain	N	Used Filters (Drain	N		27
104	10157045							Chlor Brite	N		17
105	10157045							1" Chlor/3" Jumbo	N		17
106	10157045							Muriatic Acid	N		5
107	10157045							Power Powder Plu	N		19
108	10157045							Chlorinating Liquid	N		5

Map Number
If a map is included, number of map on which the location of the hazardous material is shown.

Inventory | Code Reference | headers | data | date | ehs-717 | sortingCAS | scale | colum

Tricks & Tips

Each Column has data

Data has been classified as Value or Data

Something I want (useful) or don't need

	A	B	C	D	E	F	G	H	I	J	K
1	Location Information					Chemical Identification					
2	1a*	201	202	203	204	205	206	207*	208	209	210a
3	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumbe	PFCodeHazardCla
4	Value	data	data	data	data	data	data	data	data	data	data
5	Need	maybe	don't need	don't need	don't need	useful	don't need	useful	useful	Very useful	don't need
98	10421194	LENS PROCESSING AR	N			COMPRESSED AIR	N	COMPRESSED AIR	N		39
99	10421194	LENS PROCESSING AR	N			NITROGEN	N	NITROGEN	N		39
100	10450675	Elevator Equipment F	N	1st Floor Map	F4			Hydraulic Fluid	N		
101	10419442	west side of lot	N		B-C 3-5	Unleaded Gasoline	N	Unleaded Gasoline	N	8006-61-9	10

Tricks & Tips

Useful columns have been highlighted

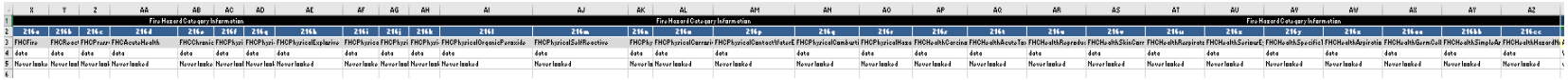
	A	B	C	D	E	F	G	H	I	J
1	Location Information					Chemical Identification				
2	1a*	201	202	203	204	205	206	207*	208	209
3	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumbe
4	Value	data	data	data	data	data	data	data	data	data
5	Need	maybe	don't need	don't need	don't need	useful	don't need	useful	useful	Very useful

K	L	M	N	O	P	Q	R
Fire Code Hazard Class Information							
210a	210b	210c	210d	210e	210f	210g	210h
PFCodeHazardCla	SFCodeHa	TFCodeHazardClass	FFCodeHazardClass	FifthFireCodeHazardClass	SixthFireCodeHazardClass	SeventhFireCodeHazardClass	EighthFireCodeHazardClass
data	data	data	data	data	data	data	data
don't need	don't need	don't need	don't need	don't need	don't need	don't need	don't need

Tricks & Tips

Useful columns have been highlighted

	S	T	U	V	W	
	211	212	213	214*	215	
e(	HMType	RadioActive	Curies	PhysicalSta	LargestContainer	FH
	data	data	Value	data	Value	da
k	useful	Never lookec	Never look	useful	useful	Ne



	BA	BB	BC	BD	BE	BF	
	217	218*	219	220	221*	222	
t(	AverageDailyAmount	MaximumDailyAmount	AnnualWasteAmount	StateWasteCode	Units	DaysOnSite	S(
	Value	Value	Value	data	data	Value	da
	useful	Very Useful	maybe	not really	useful	maybe	m

Tricks & Tips

Useful columns have been highlighted

BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY
Storage Container Information*								Storage Container Information*									Storage Container Information*	
223a	223b	223c	223d	223e	223f	223g	223h	223i	223j	223k	223l	223m	223n	223o	223p	223q	223r	223r-1
SCAboveGroundTank	SCUnderGroundTank	SCTankInsideBuilding	SCSteelDrum	SCPlasticNonMetallicDrum	SCCan	SCCarboy	SCSilo	SCFiberDrum	SCBag	SCBox	SCCylinder	SCGlassBottle	SCPlasticBottle	SCToteBin	SCTankTruckTankWagon	SCTankCarRailCar	SCOther	OtherStorageContainer
data	data	data	data	data	data	data	data	data	data	data	data	data	data	data	data	data	data	data
maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe	maybe

BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU
		Hazardous Component Information								Hazardous Component Information											
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245
StoragePr	StorageTe	HC1Perce	HC1Name	HC1EHS	HC1CAS	HC2Perce	HC2Name	HC2EHS	HC2CAS	HC3Perce	HC3Name	HC3EHS	HC3CAS	HC4Perce	HC4Name	HC4EHS	HC4CAS	HC5Perce	HC5Name	HC5EHS	HC5CAS
data	data	Value	data	data	data	Value	data	data	data	Value	data	data	data	Value	data	data	data	Value	data	data	data
useful	useful	Very Usef	useful	useful	Very Usef	Very Usef	useful	useful	Very Usef	Very Usef	useful	useful	Very Usef	Very Usef	useful	useful	Very Usef	Very Usef	useful	useful	Very Usef

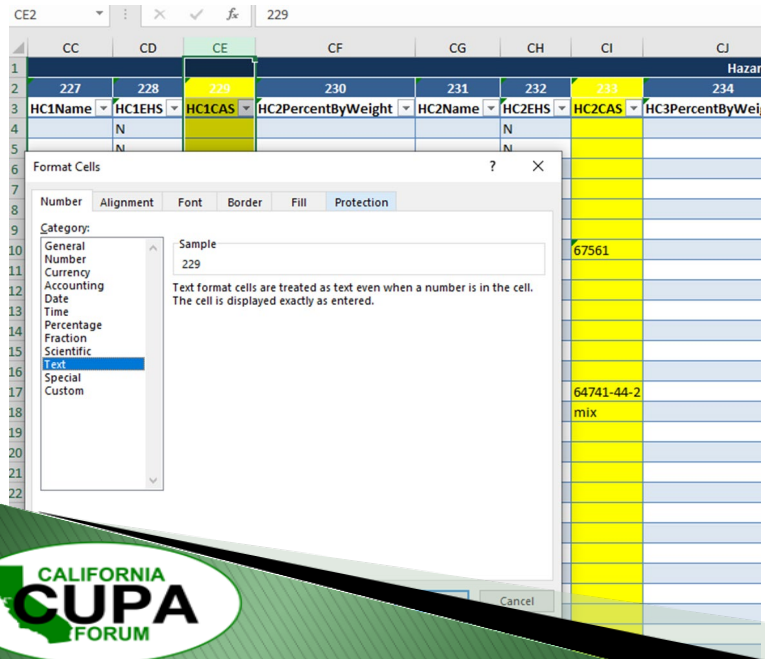
CV	CW	CX	CY	CZ	DA	DB	DC	DD
246	247	250	251	252	20.0010	20.0005	20.0006	
Chemical	Additiona	CCLID	USEPASRS	DOTHazar	Submitte	Submittal	Accepted	Date
data	data	data	Value	Value	Value	data	Value	
useful	useful	don't care	maybe	don't care	maybe	don't care	don't care	

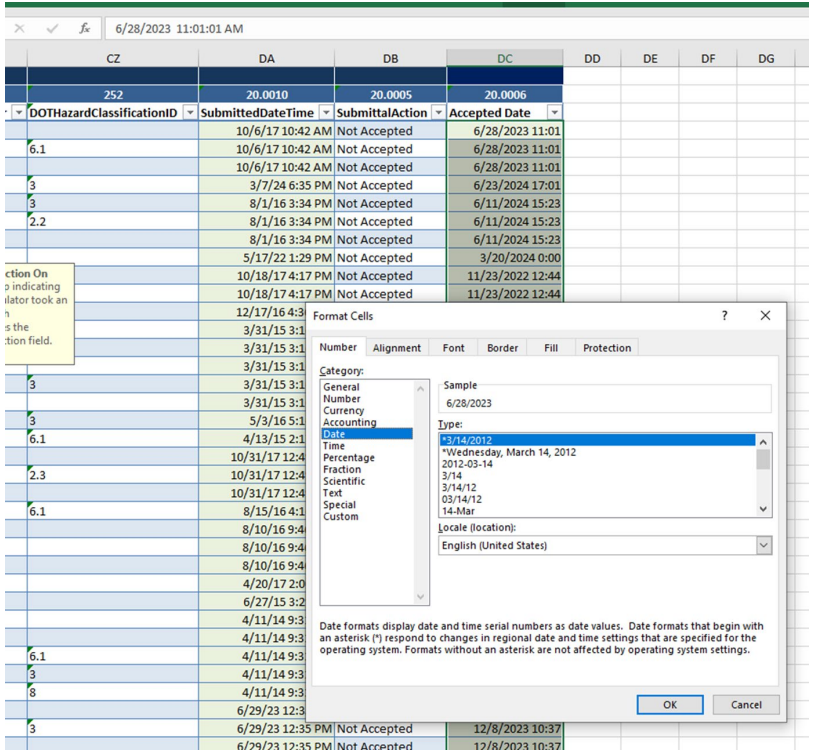
Only 39 columns…

Tricks & Tips

Preserve the data

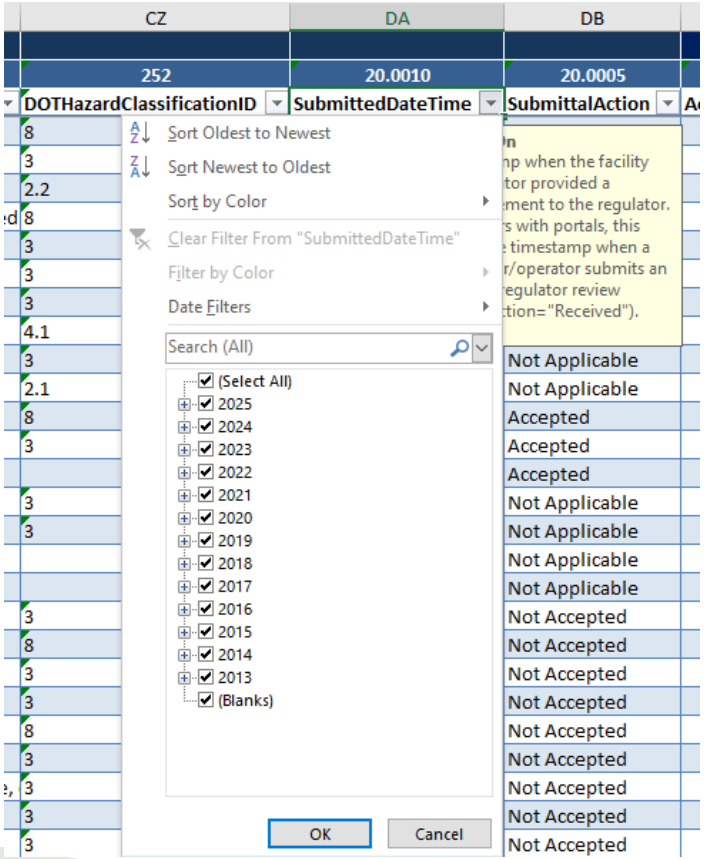
CAS #s, Dates & Numbers



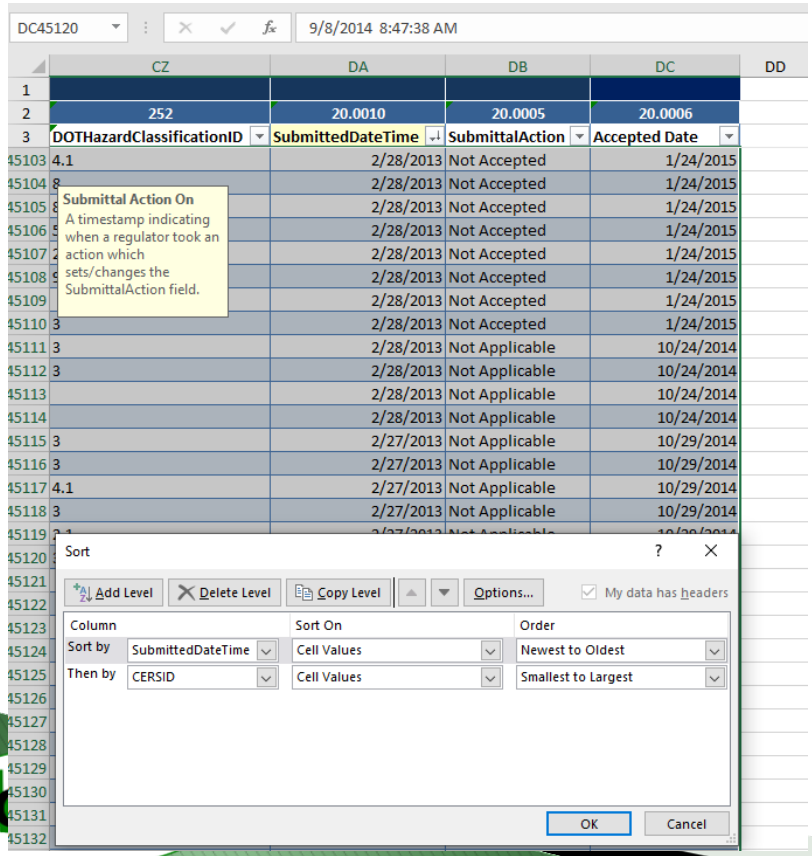


Tricks & Tips

Filter Date



Tricks and Tips



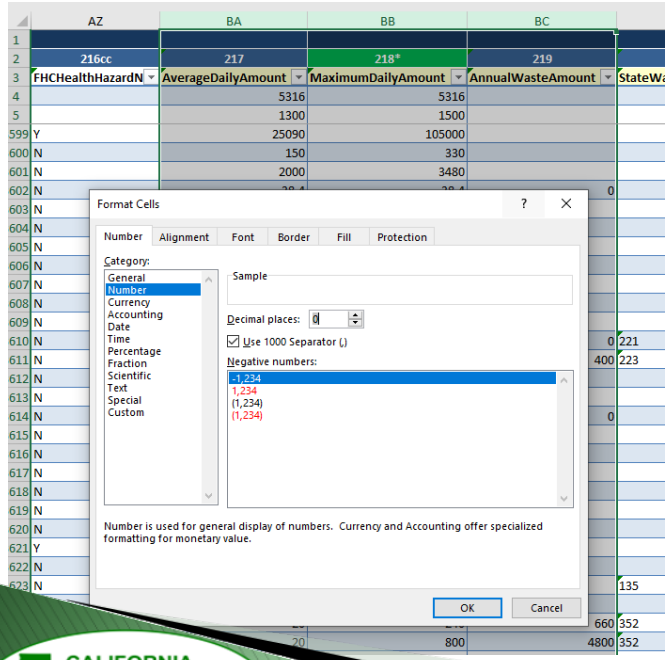
Highlight the old data in grey

Sort grey to the bottom

Cross check

Tricks & Tips

Make it easy



	AZ	BA	BB	BC	B
1					
2	216cc	217	218*	219	22
3	FHCHealthHazardN	AverageDailyAmount	MaximumDailyAmount	AnnualWasteAmount	StateWast
4		5,316	5,316		
5		1,300	1,500		
3599	Y	25,090	105,000		
3600	N	150	330		
3601	N	2,000	3,480		
3602	N	38	38	0	
3603	N	250	500		
3604	N	1,200	3,000		
3605	N	1,000	3,000		
3606	N	1,300	4,000		
3607	N	165	330		
3608	N		0		
3609	N		0		
3610	N	55	110	0	221
3611	N	55	55	400	223
3612	N	10,000	40,000		
3613	N	1,750	3,500		
3614	N	2,005	2,005	0	
3615	N	670	670		
3616	N	1,216	1,216		
3617	N	291	291		
3618	N	55	110		
3619	N	1,000	2,400		

27th California Unified Program
Annual Training Conference
March 24-27, 2025

Hit the Griddy

107 columns X how many rows

LA City CUPA–	235,000 rows
Orange County CUPA–	45,117 rows
Stanislaus CUPA–	23,063 rows
Downey Fire–	2,015 rows

100k and greater-- Deus ex machina

A100007 | 10248688

	A	B	C	D	E	F	G	H	I	J
99993	10248688	Molecular Sciences		4228300	2241LB	Tetrabutylammonium bisulfate		Tetrabutyl Ammon	N	32503-27-8
99994	10248688	Molecular Sciences		4228300	2211LB	Copper (II) Nitrate Hydrate		Copper Nitrate	N	3251-23-8
99995	10248688	Molecular Sciences		4228300	1220A	imidazole acetic acid hydrochlorid		imidazole acetic ac	N	3251-69-2
99996	10248688	Molecular Sciences		4228300	3224A	Paraformaldehyde		Paraformaldehyde	N	32525-89-4
99997	10248688	Molecular Sciences		4228300	3224A	Trifluoro-1-phenyl-1,3-butanedion		1,3-Butanedione, 4	N	326-06-7
99998	10248688	Molecular Sciences		4228300	4230	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
99999	10248688	Molecular Sciences		4228300	5230LB	boc-L-serine		boc-L-serine	N	3262-72-4
100000	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100001	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100002	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100003	10248688	Molecular Sciences		4228300	5229	di-p-toluoyl-d-tartaric acid		Butanedioic acid, 2	N	32634-68-7
100004	10248688	Molecular Sciences		4228300	4235LB	1-acetylpyrene		1-acetylpyrene	N	3264-21-9

100k and greater– Easy as 1, 2

A100000

	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumber
99998	10248688	Molecular Sciences		4228300	4230	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
99999	10248688	Molecular Sciences		4228300	5230LB	boc-L-serine		boc-L-serine	N	3262-72-4
100000										
100001	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100002	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100003	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4

A100000 10248688

	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumber
99998	10248688	Molecular Sciences		4228300	4230	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
99999	10248688	Molecular Sciences		4228300	5230LB	boc-L-serine		boc-L-serine	N	3262-72-4
100000	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100001	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100002										
100003	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100004	10248688	Molecular Sciences		4228300	5229	di-p-toluoyl-d-tartaric acid		Butanedioic acid, 2	N	32634-68-7

100k and greater-- Deus ex machina 3

A100000 | 10248688

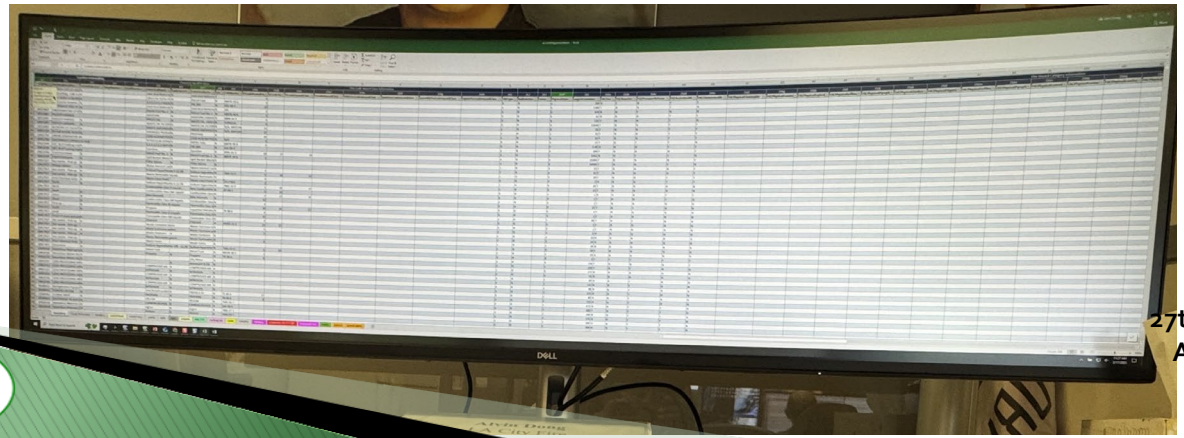
	CERSID	ChemicalLocation	CLConfidential	MapNumber	GridNumber	ChemicalName	TradeSecret	CommonName	EHS	CASNumber
99993	10248688	Molecular Sciences		4228300	2241LB	Tetrabutylammonium bisulfate		Tetrabutyl Ammon	N	32503-27-8
99994	10248688	Molecular Sciences		4228300	2211LB	Copper (II) Nitrate Hydrate		Copper Nitrate	N	3251-23-8
99995	10248688	Molecular Sciences		4228300	1220A	imidazole acetic acid hydrochlorid		imidazole acetic ac	N	3251-69-2
99996	10248688	Molecular Sciences		4228300	3224A	Paraformaldehyde		Paraformaldehyde	N	32525-89-4
99997	10248688	Molecular Sciences		4228300	3224A	Trifluoro-1-phenyl-1,3-butanedion		1,3-Butanedione, 4	N	326-06-7
99998	10248688	Molecular Sciences		4228300	4230	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
99999	10248688	Molecular Sciences		4228300	5230LB	boc-L-serine		boc-L-serine	N	3262-72-4
100000	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100001	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100002	10248688	Molecular Sciences		4228300	5229A	Boc-Ser-OH		Boc-Ser-OH	N	3262-72-4
100003	10248688	Molecular Sciences		4228300	5229	di-p-toluoyl-d-tartaric acid		Butanedioic acid, 2	N	32634-68-7

Limitations

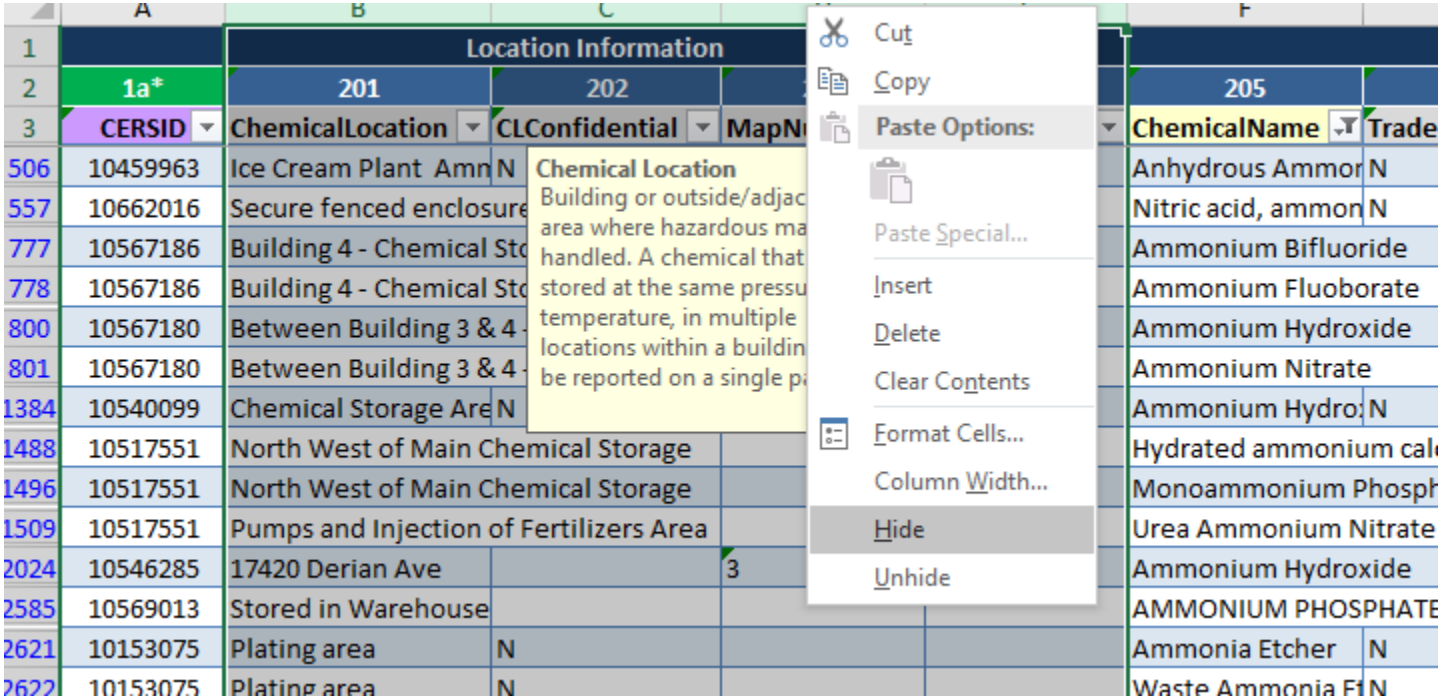
Corrollary 2: Weren't Assumption 1 & Corollary 1 mutually exclusive?
…got to know your limitations…

How Many Columns are there?

The number of columns visible to the user is limited by your monitor
Hidden Columns vs Minimizing Columns

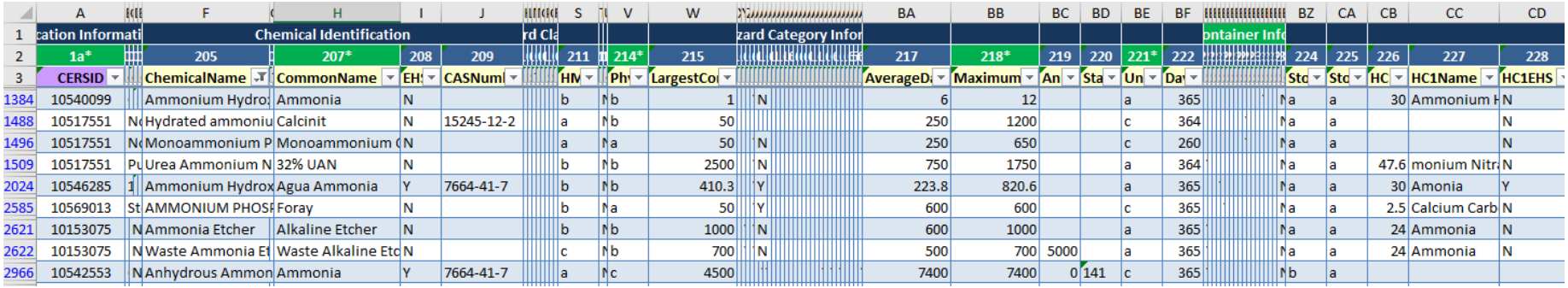


Hide vs Minimize



Hide vs Minimize

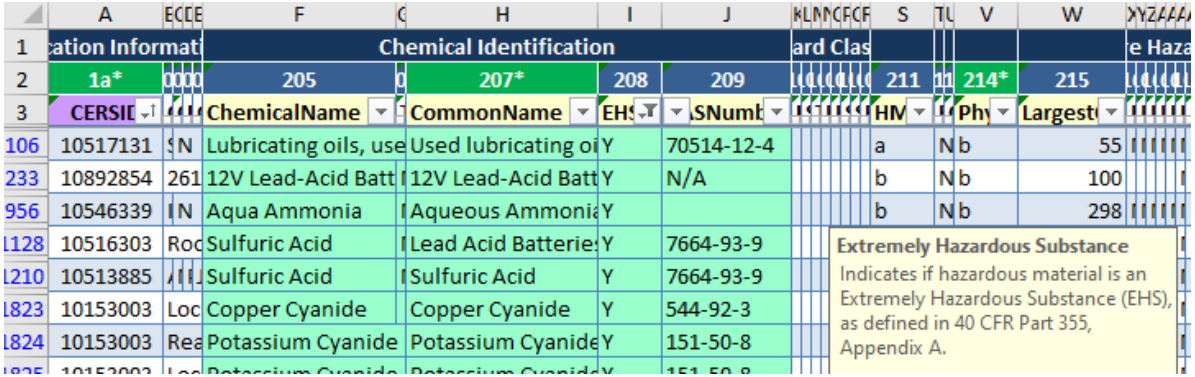
I prefer minimizing



	A	F	H	I	J	S	V	W	BA	BB	BC	BD	BE	BF	BZ	CA	CB	CC	CD
1	cation Informati	Chemical Identification			rd Cla			zard Category Infor						ontainer Info					
2	1a*	205	207*	208	209	211	214*	215	217	218*	219	220	221*	222	224	225	226	227	228
3	CERSID	ChemicalName	CommonName	EHS	CASNum	HM	Ph	LargestCo	AverageD	Maximum	An	Sta	Un	Da	Sto	Sto	HC	HC1Name	HC1EHS
1384	10540099	Ammonium Hydro	Ammonia	N		b	b	1	6	12			a	365	a	a	30	Ammonium H	N
1488	10517551	Hydrated ammoniu	Calcinit	N	15245-12-2	a	b	50	250	1200			c	364	a	a			N
1496	10517551	Monoammonium P	Monoammonium	N		a	a	50	250	650			c	260	a	a			N
1509	10517551	Urea Ammonium N	32% UAN	N		b	b	2500	750	1750			a	364	a	a	47.6	monium Nitr	N
2024	10546285	Ammonium Hydrox	Agua Ammonia	Y	7664-41-7	b	b	410.3	223.8	820.6			a	365	a	a	30	Amonia	Y
2585	10569013	AMMONIUM PHOSF	Foray	N		b	a	50	600	600			c	365	a	a	2.5	Calcium Carb	N
2621	10153075	Ammonia Etcher	Alkaline Etcher	N		b	b	1000	600	1000			a	365	a	a	24	Ammonia	N
2622	10153075	Waste Ammonia Et	Waste Alkaline Etc	N		c	b	700	500	700	5000		a	365	a	a	24	Ammonia	N
2966	10542553	Anhydrous Ammon	Ammonia	Y	7664-41-7	a	c	4500	7400	7400	0	141	c	365	b	a			

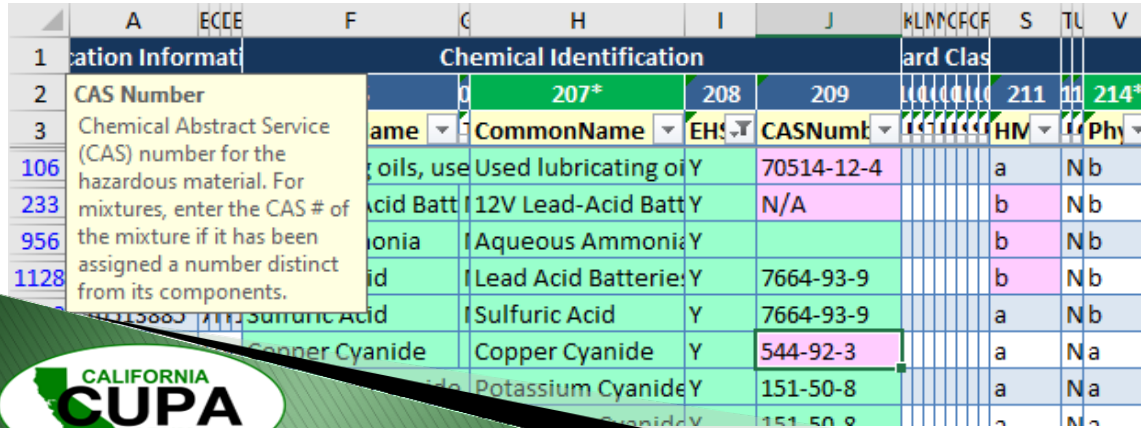
Data accessibility
Visibility

Simple right—so many lies



	A	F	H	I	J	S	V	W
1	ation Informati	Chemical Identification				ard Clas		e Haza
2	1a*	205	207*	208	209	211	214*	215
3	CERSID	ChemicalName	CommonName	EHS	SNumb	HM	Phy	Largest
106	10517131	Lubricating oils, use	Used lubricating oi	Y	70514-12-4	a	b	55
233	10892854	12V Lead-Acid Batt	12V Lead-Acid Batt	Y	N/A	b	b	100
956	10546339	Aqua Ammonia	Aqueous Ammonia	Y		b	b	298
1128	10516303	Sulfuric Acid	Lead Acid Batteries	Y	7664-93-9			
1210	10513885	Sulfuric Acid	Sulfuric Acid	Y	7664-93-9			
1823	10153003	Copper Cyanide	Copper Cyanide	Y	544-92-3			
1824	10153003	Potassium Cyanide	Potassium Cyanide	Y	151-50-8			

Extremely Hazardous Substance
Indicates if hazardous material is an Extremely Hazardous Substance (EHS), as defined in 40 CFR Part 355, Appendix A.



	A	F	H	I	J	S	V
1	ation Informati	Chemical Identification				ard Clas	
2			207*	208	209	211	214*
3		ame	CommonName	EHS	CASNumb	HM	Phy
106		oils, use	Used lubricating oi	Y	70514-12-4	a	N b
233		cid Batt	12V Lead-Acid Batt	Y	N/A	b	N b
956		onia	Aqueous Ammonia	Y		b	N b
1128		id	Lead Acid Batteries	Y	7664-93-9	b	N b
		Sulfuric Acid	Sulfuric Acid	Y	7664-93-9	a	N b
		Copper Cyanide	Copper Cyanide	Y	544-92-3	a	N a
			Potassium Cyanide	Y	151-50-8	a	N a

CAS Number
Chemical Abstract Service (CAS) number for the hazardous material. For mixtures, enter the CAS # of the mixture if it has been assigned a number distinct from its components.

EHS Column I

Field Help ×

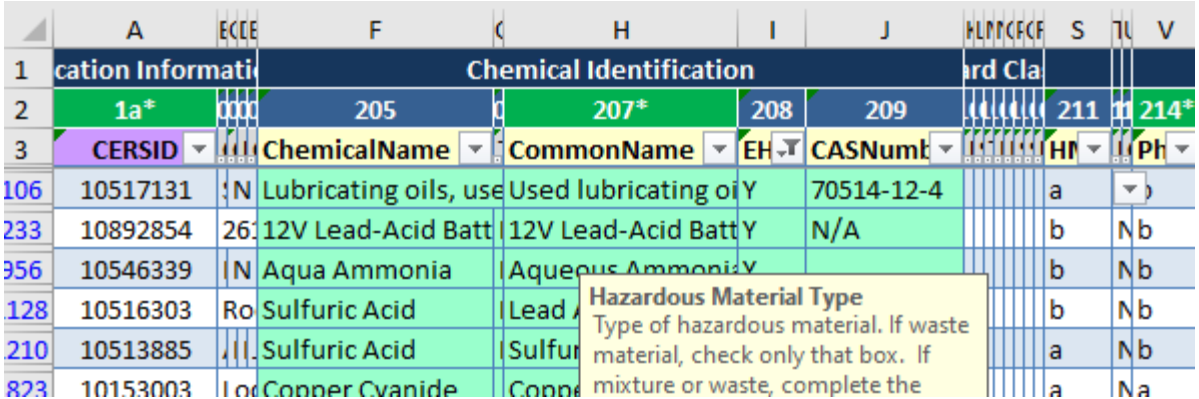
EHS
Data Registry Field Number: 208

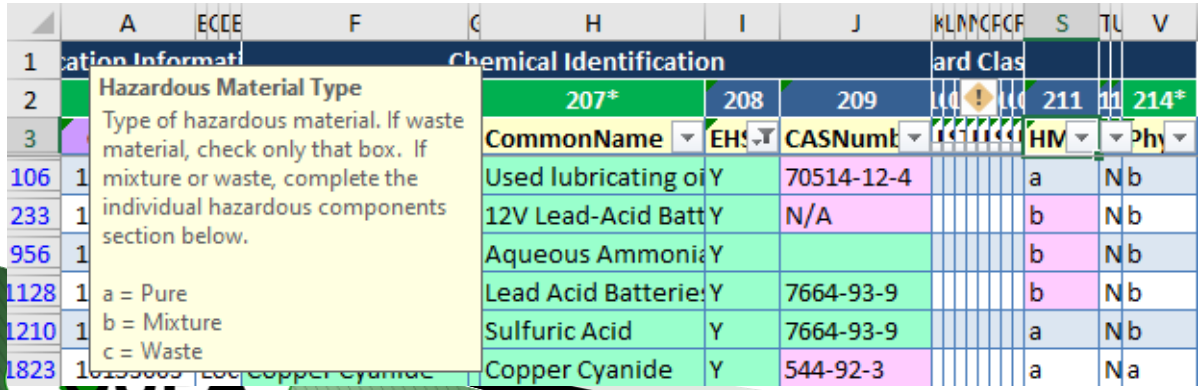
Check "Yes" if the hazardous material is an Extremely Hazardous Substance (EHS), as defined in 40 CFR, Part 355, Appendix A. If the material is a mixture containing an EHS, leave this section blank and complete the section in the Mixture Components table below.

Close

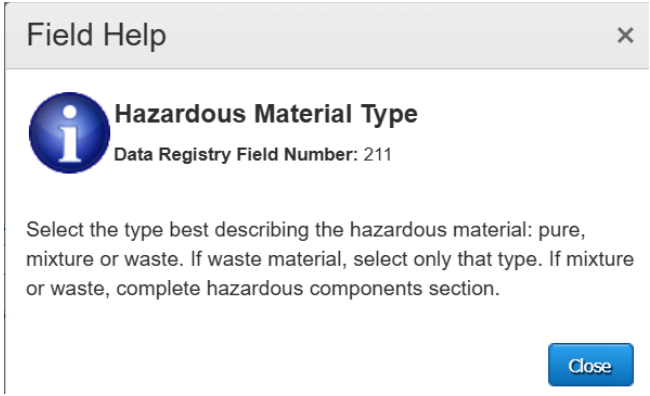
CALIFORNIA CUPA FORUM

Simple right—so many lies

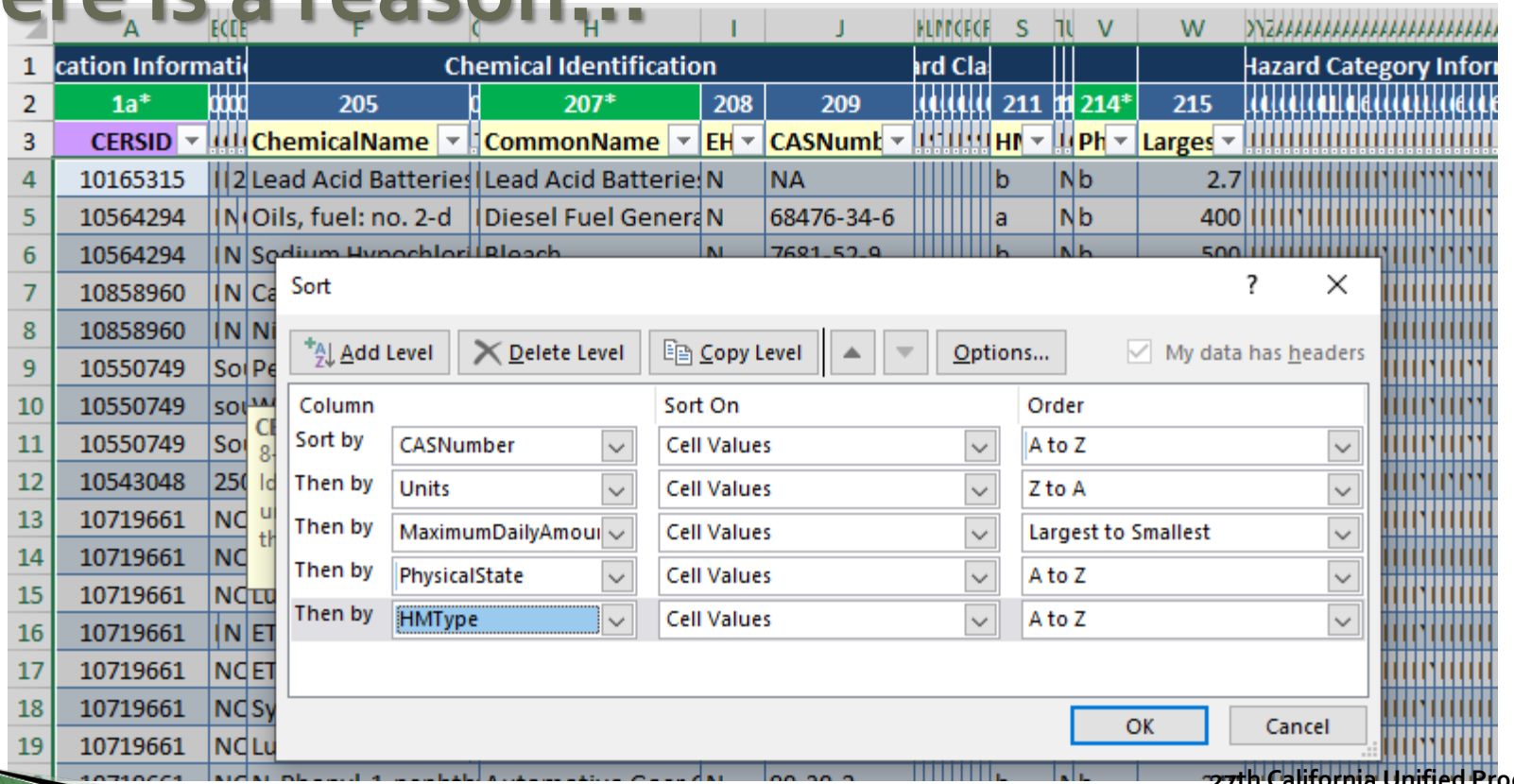




HM Type Column S



There is a reason…



Lies, Damned Lies and CERS

- Only Required Fields need be completed

  5 fields plus Container Information
- What the *B@L&A^N #K !
- Everything Approved in CERS is correct
- Mixtures and Wastes described in Mixture Section

Lies, Damned Lies and CERS

CAS Nos are correct

- CAS No format: xxxx-XX-x
- No spaces
- No leading 0's
- "Mixture"—

  Organorhodium Complex (PMN-82-147)

Lies, Damned Lies and CERS

Acids and bases are “Pure” substances

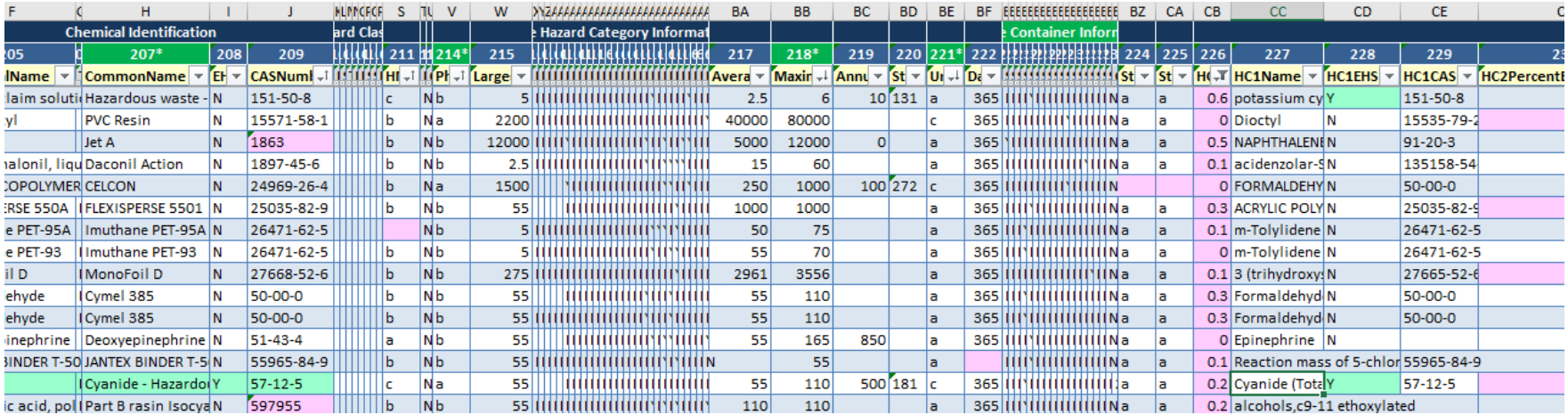
All aqueous acids are not pure

HCl, HF, HNO_3 cannot exist

Personal vexations and aversions

- Volumes/mass less than 1
- Hazardous Component less than 1%*
- Dates much, much less than 365 or
- Dates greater than 365

Lies, Damned Lies and CERS



F		H	I	J			S	T	V	W		BA	BB	BC	BD	BE	BF		BZ	CA	CB	CC	CD	CE	C
Chemical Identification					ard Clas					e Hazard Category Informat								e Container Inforr							
205		207*	208	209			211		214*	215		217	218*	219	220	221*	222		224	225	226	227	228	229	23
lName		CommonName	EH	CASNuml			HI		PH	Large		Avera	Maxir	Annu	St	Ur	Da		St	St	HC	HC1Name	HC1EHS	HC1CAS	HC2PercentE
laim soluti		Hazardous waste -	N	151-50-8			c	N	b	5		2.5	6	10	131	a	365		N	a	a	0.6	potassium cy	Y	151-50-8	
yl		PVC Resin	N	15571-58-1			b	N	a	2200		40000	80000			c	365		N	a	a	0	Dioctyl	N	15535-79-2	
		Jet A	N	1863			b	N	b	12000		5000	12000	0		a	365		N	a	a	0.5	NAPHTHALENE	N	91-20-3	
alonil, liqu		Daconil Action	N	1897-45-6			b	N	b	2.5		15	60			a	365		N	a	a	0.1	acidenzolar-S	N	135158-54	
COPOLYMER		CELCON	N	24969-26-4			b	N	a	1500		250	1000	100	272	c	365		N			0	FORMALDEHY	N	50-00-0	
RSE 550A		FLEXISPERSE 5501	N	25035-82-9			b	N	b	55		1000	1000			a	365		N	a	a	0.3	ACRYLIC POLY	N	25035-82-9	
e PET-95A		Imuthane PET-95A	N	26471-62-5				N	b	5		50	75			a	365		N	a	a	0.1	m-Tolylidene	N	26471-62-5	
e PET-93		Imuthane PET-93	N	26471-62-5			b	N	b	5		55	70			a	365		N	a	a	0	m-Tolylidene	N	26471-62-5	
il D		MonoFoil D	N	27668-52-6			b	N	b	275		2961	3556			a	365		N	a	a	0.1	3 (trihydroxys	N	27665-52-6	
ehyde		Cymel 385	N	50-00-0			b	N	b	55		55	110			a	365		N	a	a	0.3	Formaldehyd	N	50-00-0	
ehyde		Cymel 385	N	50-00-0			b	N	b	55		55	110			a	365		N	a	a	0.3	Formaldehyd	N	50-00-0	
inephrine		Deoxyepinephrine	N	51-43-4			a	N	b	55		55	165	850		a	365		N	a	a	0	Epinephrine	N		
BINDER T-50		JANTEX BINDER T-5	N	55965-84-9			b	N	b	55		N	55			a			N	a	a	0.1	Reaction mass of 5-chlor		55965-84-9	
		Cyanide - Hazardo	Y	57-12-5			c	N	a	55		55	110	500	181	c	365		N	a	a	0.2	Cyanide (Tota	Y	57-12-5	
ic acid, pol		Part B rasin Isocya	N	597955			b	N	b	55		110	110			a	365		N	a	a	0.2	alcohols,c9-11 ethoxylated			

Recap

Education RMP Background

Classes – How to obtain Data

Data Bases/CERS – Prepping the Data

Tips & Tricks

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

Second Half

AGENDA

Work – Where the magic happens--eventually

Classes – More Excel to do

Data Bases/CERS – Prepping the Data

Analysis

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

CERS *is* your friend!

List of List

Where's Wally?

AGENDA

Wally%3F

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	EPCRA, CERCLA, CAA 112(r), and CWA 311 Consolidated List of List for Specific Chemicals with CAS Numbers												
2	THE FOLLOWING LIST SHOULD BE USED FOR REFERENCE ONLY. COMPLIANCE INFORMATION CAN BE FOUND IN 40 CFR PART 302 AND TABLE 302.4												
3	NAME	CAS Number/ 313 Category Codes	Comptox	CAA 112(r)(7) TQ	CERCLA HS RQ	CWA 311(j)(5) HS TQ	EPCRA 302 EHS TPQ	EPCRA 304 EHS RQ	EPCRA 313 TF	RCRA Cod	CAS Sort Value	NAMEINDEX	5189 App
348	Chlorendic acid	115-28-6	DTXSID2020268						313		115286	CHLORENDIC ACID	
349	Chlorfenvinfos	470-90-6	DTXSID7034250				500	500			470906	CHLORFENVINFOS	
350	Chlorimuron-ethyl	90982-32-4	DTXSID0023955						313		90982324	CHLORIMURON ETHYL	
351	Chlorinated Benzenes	N.A.	DTXSID201034315		&						0	CHLORINATED BENZENES	
352	Chlorinated Ethanes	N.A.	DTXSID3028479		&						0	CHLORINATED ETHANES	
353	Chlorinated Naphthalene	N.A.	DTXSID60103485		&						0	CHLORINATED NAPHTHALENE	
354	Chlorinated Phenols	N084	DTXSID201336737		&				313		1	CHLORINATED PHENOLS	
355	Chlorine (5)	7782-50-5	DTXSID1020273	2,500	10	10,000	100	10	313		7782505	CHLORINE	1500
356	Chlorine dioxide	10049-04-4	DTXSID5023958	1,000					313		10049044	CHLORINEDIOXIDE	1000
357	Chlorine monoxide	7791-21-1	DTXSID50893909	10,000							7791211	CHLORINEMONOXIDE	
358	Chlorine oxide	7791-21-1	DTXSID50893909	10,000							7791211	CHLORINEOXIDE	
359	Chlorine oxide (ClO2)	10049-04-4	DTXSID5023958	1,000					X		10049044	CHLORINEOXIDE (CLO2)	
360	Chlorine Pentrafluoride	13637-63-3									13637633	Chlorine Pentrafluoride	1000

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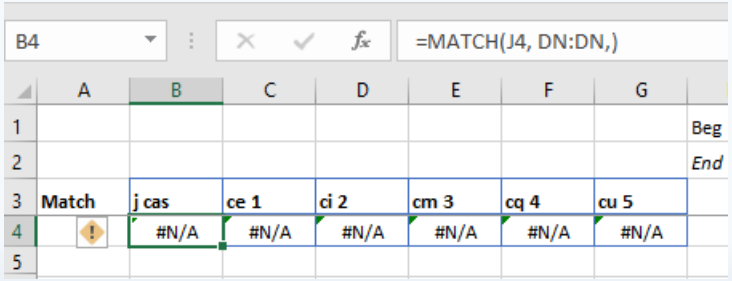
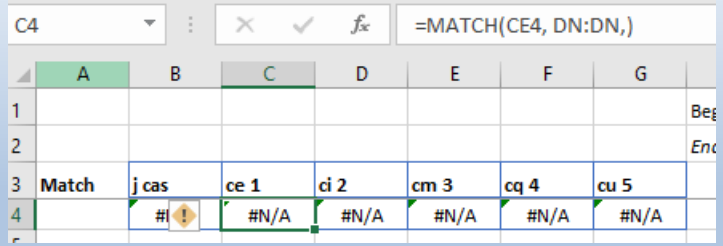
Wally's Key

Where's Wally?

H	I	J	K	L	M	N
Beg	4	210	278	285		
End	*209*	*277*	*284*	*347*		
		Chemical Name	**CAS Number/31**	***On Tables 1***	**CAA 112(r)(7) TQ**	***Threshold quantity (lbs)***
	4	Ethylene Fluorohydrin	371-62-0	no		10
	5	Fluoroacetyl Chloride	359-06-8	no		10
	209	Valinomycin	2001-95-8	no		1,000/10,000 3
	210	Nickel carbonyl	13463-39-3	yes	1000	1
	211	Hydrogen selenide	7783-07-5	yes	500	10
	277	Methyl thiocyanate [Thiocyanic acid, methyl ester]	556-64-9	yes	20000	10,000
	278	Chlorine dioxide [Chlorine oxide (ClO2)]	10049-04-4	no	1000	
	284	Toluene diisocyanate (unspecified isomer) [Benzene, 1,3-diisocyanatomethyl-] 1	26471-62-5	no	10000	
	285	1,3-Butadiene	106-99-0		10000	
	286	1,3-Pentadinene	504-60-9		10000	
	287	1-Butene	106-98-9		10000	

Second Half





Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

27th California Unified Program Annual Training Conference
March 24-27, 2025

Magic Happens

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

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March 24-27, 2025

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Inventory

AGENDA

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

AdditionalMixtureComponents

Additional Mixture Components
Use to report additional hazardous mixture component data (as necessary).

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27th California Unified Program Annual Training Conference
March 24-27, 2025

Make Magic Happen

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN
5	20.0010	20.0005	20.0006											
	SubmittedI	SubmittalA	Accepted D											
	7/1													
	2/													
	3/													
2	3/													
3	2/2													
	3/													
	3/													
8	2/1													
8	3/1/2024	Accepted	3/5/2024											
	3/1/2024	Accepted	3/5/2024											

Submitted On

The timestamp when the facility owner/operator provided a submittal element to the regulator. For regulators with portals, this would be the timestamp when a facility owner/operator submits an element for regulator review (SubmittalAction="Received").

AGENDA

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27th California Unified Program
Annual Training Conference
March 24-27, 2025

Making Magic

Where's Wally?

AGENDA

	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR
1																		
2	5	20.0010	20.0005	20.0006														
3		Submitted	SubmittalA	Accepted D	Match	jcas	ce 1	ci 2	cm 3	cq 4	cu 5	cu 6	cu 7	Chen	313 Ca	bles 1	A 112(r	ld qua	tity (lbs)
4		7/18/2024	Accepted	11/25/2024		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Fluorohydrin	371-62-0	no		10	
5		2/		024									5	Fluoroacetyl Chloride	359-06-8	no		10	
6		3/		024									6	Lewisite 2	541-25-3	no		10	
7	2	3/		024									7	Mechlorethamine 2	51-75-2	no		10	
8	3	2/20/2024	Accepted	3/14/2024									8	Methyl Vinyl Ketone	78-94-4	no		10	

Submitted On
The timestamp when the facility owner/operator provided a submittal element to the regulator. For regulators with portals, this would be the timestamp when a facility owner/operator submits an element for regulator review (SubmittalAction="Received").

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Annual Training Conference
March 24-27, 2025

Second Half

AGENDA

Work – Where the magic happens--eventually

Classes – More Excel to do

Data Bases/CERS – Prepping the Data

Analysis

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

CERS *is* your friend!

Magic Happens

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

AGENDA

MATCH | =MATCH(J4,DN:DN,)

	I	J	K	C	C	C	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ
1	on																						
2	208	209					20.0010	20.0005	20.0006														
3	EHS	CASNumb					SubmittedI	SubmittalA	Accepted D	Match	jcas	ce 1	ci 2	cm 3	cq 4	cu 5	cu 6	cu 7	Chen	313 Ca	bles 1	A 112(r)	old qua
4	N	-					7/18/2024	Accepted	11/25/2024	=MATCH(J4,DN: DN,)	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Fluorohydrin	371-62-0	no		10
5	N	-			-		2/2/2024	Accepted	4/24/2024									5	Fluoroacetyl Chloride	359-06-8	no		10
6	N	-					3/1/2024	Accepted	3/5/2024									6	Lewisite 2	541-25-3	no		10
7	N	-				2	3/1/2024	Accepted	3/5/2024									7	Mechlorethamine 2	51-75-2	no		10

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Magic Happens—Flash Fill

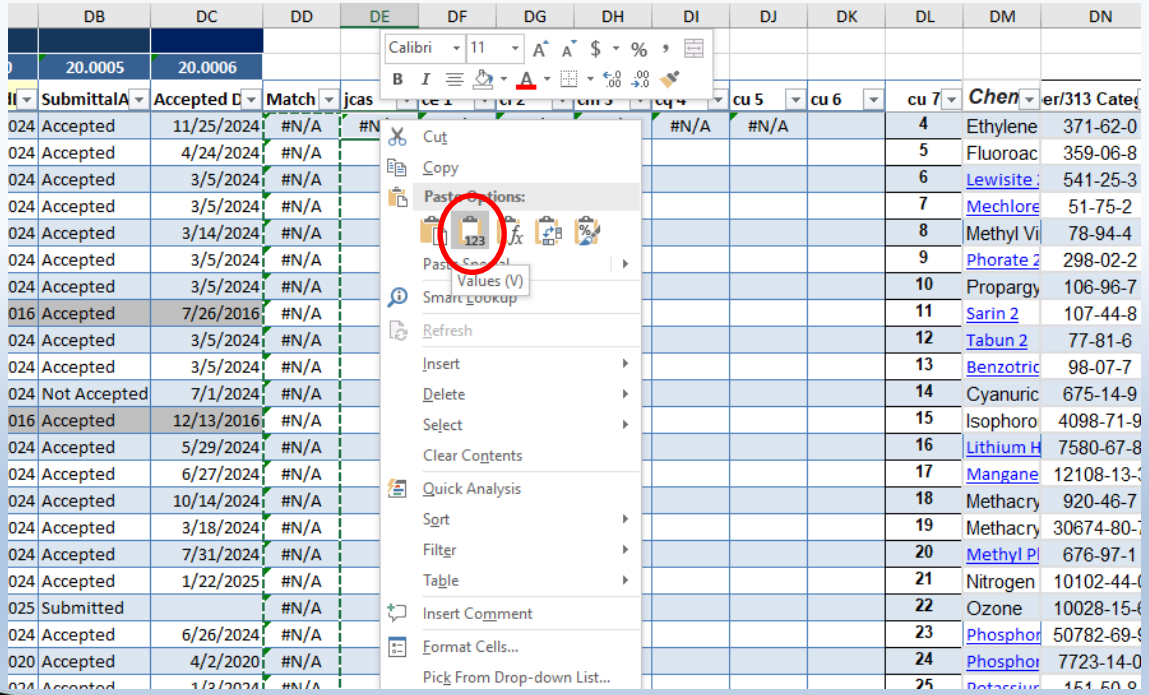
Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

DA3 | SubmittedDateTime

	I	J	K	C	C	C	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ
1	on																						
2	208	209	1	5	5	5	20.0010	20.0005	20.0006														
3	EHS	CASNumb	r	c	u	r	Submitted	SubmittalA	Accepted D	Match	jcas	ce 1	ci 2	cm 3	cq 4	cu 5	cu 6	cu 7	Chen	313 Ca	bles 1	A 112(r)	ld qua
4	N	-					7/18/2024	Accepted	11/25/2024	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Fluorohydrin	371-62-0	no		10
5	N	-			-		2/2/2024	Accepted	4/24/2024	#N/A								5	Fluoroacetyl Chloride	359-06-8	no		10
6	N	-					3/1/2024	Accepted	3/5/2024	#N/A								6	Lewisite 2	541-25-3	no		10
																			Mechlor				

Paste Values



Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

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is your friend!

CALIFORNIA CUPA FORUM

27th California Unified Program
Annual Training Conference
March 24-27, 2025

Complete

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

CU	CV	CW	CC	C	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	D
															Beg	4	210	278	285			
245	246	247	5	5	20.0010	.00	.00								End	209	277	284	347			
HC5CAS	ChemicalD	AdditionalI	C	I	Submitted			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical	CAS Number/	On Tab	CAA 112(	Threshold q	
					7/18/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Flu	371-62-0	no		10	
50-96-7	-	-		-	2/2/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		5	Fluoroacety	359-06-8	no		10	
					3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		6	Lewisite 2	541-25-3	no		10	
				2	3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		7	Mechloretha	51-75-2	no		10	
	-	-		-	3 2/20/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		8	Methyl Vinyl	78-94-4	no		10	
					3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		9	Phorate 2	298-02-2	no		10	
		Proprietary			3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		10	Propargyl B	106-96-7	no		10	
				8	2/12/2016	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		11	Sarin 2	107-44-8	no		10	
-		Graphite, Carbor	8		3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		12	Tabun 2	77-81-6	no		10	
					3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		13	Benzotrichlo	98-07-7	no		100	
					3/29/2024	Nc	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		14	Cyanuric Flu	675-14-9	no		100	
					12/13/2016	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		15	Isophorone	4098-71-9	no		100	
					2/13/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		16	Lithium Hydr	7580-67-8	no		100	

Compare Values

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

	AE	CE	F	G	H	I	J	CB	CC	CD	CE	CF	CG	CH	CI	CC	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ
1	n Info		Chemical Identification					Hazardous Component Information																		
2			205		207*	208	209	226	227	228	229	230	231	232	233		20.0010									
3			ChemicalName		CommonName	EH	CASNumb	HC	HC1Name	HC	HC1CAS	HC	HC2Name	HC	HC2CAS		Submitted			match	j CAS	ce 1	ci 2	cm 3	cq 4	cu 5
4177		C	N	Ammonium Hydr		Ammonium Hydr	N	1336-21-6	19	Ammonium	N	1336-21-6	81	Water	N	7732-18-5		2/15/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4178		N	N	Ammonium Hydr		Ammonium Hydr	N	1336-21-6	19	Ammonium	N	1336-21-6	81	Water	N	7732-18-5		2/15/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4179		A	N	Ammonium Hydr		Ammonium Hydr	N	1336-21-6	19	Ammonium	N	1336-21-6	81	Water	N	7732-18-5		2/15/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4180		A	Y	AMMONIUM HYD		AMMONIUM HYD	N	1336-21-6	29	Ammonium	N	7664-41-7	71	Water	N	7732-18-5		2/29/2024	Acc	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A
4181		C	N	Ammonium Hydr		Ammonium Hydr	N	1336-21-6	19	Ammonium Hydrc		1336-21-6	81	Water		7732-18-5		2/15/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4182		D	Y					1336-21-6	19	Aqueous An	Y	7664-41-7						1/22/2025	Cer	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A
4183		A						1336-21-6	17	Ammonia	N	1336-21-6			N			2/20/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4184		Res						1336-21-6	19	AMMONIUM	N	1336-21-6	81	WATER	N	7732-18-5		3/4/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4185		F	F					1336-21-6	30	Ammonia	N	7664-41-7						3/1/2024	Acc	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A
4186								1336-21-6	19	Ammonium	N	1336-21-6	81	Water		7732-18-5		6/19/2024	Acc	##	#N/A	31	31	#N/A	#N/A	#N/A	#N/A
4187		Ins						1336-21-6	19	Ammonia	Y	7664-41-7	81	Water	N	7732-18-5		1/23/2024	Cer	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A
4188		V	N					1336-21-6	19	Ammonia	Y	7664-41-7	81	Water	N	7732-18-5		1/23/2024	Cer	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A
4189		Wi		Ammonium hydr		Ammonium hydr	N	1336-21-6	19	Ammonia	Y	7664-41-7	81	Water	N	7732-18-5		1/23/2024	Cer	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A
4190		Wi		Ammonium hydr		Ammonium hydr	N	1336-21-6	19	Ammonia	Y	7664-41-7	81	Water	N	7732-18-5		1/23/2024	Cer	##	#N/A	31	255	#N/A	#N/A	#N/A	#N/A

Additional Mixture Components
Use to report additional hazardous mixture component data (as necessary).

Compare Values

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

DK	DL	DM	DN	DO	DP	DQ	D
Beg	4	210	278	285			
End	209	277	284	347			
		Chemical Nam	er/313 Cate	bles 1	AA 112(r)(7	old qua	ity (l
	4	Ethylene Fluorohyc	371-62-0	no		10	
	30	Aluminum Phosphi	20859-73-8	no		500	
	31	Ammonia 5	1336-21-6	no		500	
	32	Diepoxybutane 2	1464-53-5	no		500	
	254	Propyl chloroform	109-61-5	yes	15000	500	
	255	Ammonia (anh/>2	7664-41-7	yes	10000/20000	500	
	256	Hydrogen Chloride	7647-01-0	yes	5000/15000	500	
	257	Ethyleneoxide [O:	75-21-8	yes	10000	1,000	
	258	Trimethylchlorosil	75-77-4	yes	10000	1,000	
	259	1,1-Dimethylhydra	57-14-7	yes	15000	1,000	

	Chemical Nam	er/313 Cate	bles 1	AA 112(r)(7	old qua	ity (lbs)
4	Ethylene Fluorohyc	371-62-0	no		10	
30	Aluminum Phosphi	20859-73-8	no		500	
31	Ammonia 5	1336-21-6	no		500	
32	Diepoxybutane 2	1464-53-5	no		500	
254	Propyl chloroform	109-61-5	yes	15000	500	
255	Ammonia (anh/>2	7664-41-7	yes	10000/20000	500	
256	Hydrogen Chloride	7647-01-0	yes	5000/15000	500	
257	Ethyleneoxide [O:	75-21-8	yes	10000	1,000	

Second Half

AGENDA

Work – Where the magic happens--eventually

Classes – More Excel to do

Data Bases/CERS – Prepping the Data

Phase 1 – Filter & Color

Phase 2 – Re-Sort alphabetic

Analysis

CERS *is* your friend!

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

27th California Unified Program Annual Training Conference
March 24-27, 2025

CALIFORNIA CUPA FORUM

Second Half

AGENDA

Assumption

All Sleuthers have a basic knowledge of Excel

Corollary 1

Most sleuthers are uncomfortable or becoming uncomfortable

Corollary 3

He better pick up the pace I heard lunch is almost ready…

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

CERS *is* your friend!

CALIFORNIA CUPA FORUM

27th California Unified Program Annual Training Conference
March 24-27, 2025

Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ
											Beg	4	210	278	285		
	20.0010	.00	.00								End	209	277	284	347		
	Submitted			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical	CAS Number	On Tab	CAA 112(	Threshold
	7/18/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Flu	371-62-0	no		10
	2/2/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		5	Fluoroacetyl	359-06-8	no		10
	3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		6	Lewisite 2	541-25-3	no		10
2	3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		7	Mechlorethar	51-75-2	no		10
3	2/20/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		8	Methyl Vinyl	78-94-4	no		10

Filter and Coloring

Where's Wally?

'/en.wikipedia.org/wiki/Where%27s_Wally%3F

AGENDA

CW	CCC	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ
												Beg	4	210	278	285		
247	555	20.0010	.00	.00								End	209	277	284	347		
ditionalN		Submitted[			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical	CAS Number/	On Tab	CAA 112(	Threshold
							#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Flu	371-62-0	no		10
							#N/A	#N/A	#N/A	#N/A	#N/A		5	Fluoroacetyl	359-06-8	no		10
							#N/A	#N/A	#N/A	#N/A	#N/A		6	Lewisite 2	541-25-3	no		10
							#N/A	#N/A	#N/A	#N/A	#N/A		7	Mechlorethar	51-75-2	no		10
							#N/A	#N/A	#N/A	#N/A	#N/A		8	Methyl Vinyl	78-94-4	no		10
											#N/A		9	Phorate 2	298-02-2	no		10
roprietary											#N/A		10	Propargyl Bı	106-96-7	no		10
											#N/A		11	Sarin 2	107-44-8	no		10
raphite, Carb											#N/A		12	Tabun 2	77-81-6	no		10
											#N/A		13	Benzotrichlor	98-07-7	no		100
											#N/A		14	Cyanuric Flu	675-14-9	no		100
											#N/A		15	Isophorone I	4098-71-9	no		100
											#N/A		16	Lithium Hydri	7580-67-8	no		100
											#N/A		17	Manganese,	12108-13-3	no		100
											#N/A		18	Methacryloyl	920-46-7	no		100
											#N/A		19	Methacryloyl	30674-80-7	no		100
											#N/A		20	Methyl Phosp	676-97-1	no		100
	3	12/21/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		21	Nitrogen Dic	10102-44-0	no		100

Sort Smallest to Largest
Sort Largest to Smallest
Sort by Color
Clear Filter From "j cas"
Filter by Color
Number Filters
Search
(Select All)
21
25
26
30
31
51
64
80
133
OK
Cancel

Equals...
Does Not Equal...
Greater Than...
Greater Than Or Equal To...
Less Than...
Less Than Or Equal To...
Between...
Top 10...
Above Average
Below Average
Custom Filter...

CERS *is* your friend!

Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ
										Beg	4	210	278	285		
20.0010	.00	.00								End	209	277	284	347		
Submitted[			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical	CAS Number/	On Tab	CAA 112(	Threshol
7/18/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Flu	371-62-0	no		10
2/2/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		5	Fluoroacetyl	359-06-8	no		10
3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		6	Lewisite 2	541-25-3	no		10
													51-75-2	no		10
													78-94-4	no		10
													298-02-2	no		10
													106-96-7	no		10
													107-44-8	no		10
													77-81-6	no		10
													98-07-7	no		100
													675-14-9	no		100
													4098-71-9	no		100
													7580-67-8	no		100

Custom AutoFilter

Show rows where:

j cas

is greater than or equal to

And Or

is less than or equal to

Use ? to represent any single character

Use * to represent any series of characters

OK Cancel

Filter and Coloring

Where's Wally?

wiki/Where%27s_Wally%3F

DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ
										Beg	4	210	278	285		
20.0010	.00	.00								End	209	277	284	347		
Submitted[			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical	CAS Number/	On Tab	CAA 112(	Threshold
7/18/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		4	Ethylene Flu	371-62-0	no		10
2/2/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		5	Fluoroacetyl	359-06-8	no		10
3/1/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A		6	Lewisite 2	541-25-3	no		10
													51-75-2	no		10
													78-94-4	no		10
													298-02-2	no		10
													106-96-7	no		10
													107-44-8	no		10
													77-81-6	no		10
													98-07-7	no		100
													675-14-9	no		100
													4098-71-9	no		100
													7580-67-8	no		100

Custom AutoFilter

Show rows where:

cu 5

is greater than or equal to — 4

And / Or

is less than or equal to — 209

Use ? to represent any single character

Use * to represent any series of characters

OK Cancel

AGENDA

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CALIFORNIA CUPA FORUM

27th California Unified Program Annual Training Conference
March 24-27, 2025

Filter and Coloring

Where's Wally?

/wiki/Where%27s_Wally%3F

T	CU	CV	CW	CC	C	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM
																Beg	4	210
44	245	246	247	5	5	20.0010	.00	.00								End	209	277
	HC5CAS	ChemicalDe	AdditionalN			SubmittedI			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical
	Mixture					3/5/2024	Ac	#	#N/A	#N/A	#N/A	69	#N/A	#N/A	69			
	MIXTURE				3	11/8/2018	No	#	#N/A	#N/A	#N/A	#N/A	69	#N/A	69			
	mixture				3	1/8/2025	Ac	#	#N/A	#N/A	#N/A	69	69	#N/A	69			
	mixture				3	1/8/2025	Submi		#N/A	#N/A	#N/A	69	69	#N/A	69			
	mixture				3	1/9/2025	Submi		#N/A	#N/A	#N/A	69	69	#N/A	69			
	mixture				3	1/10/2025	Submi		#N/A	#N/A	#N/A	69	69	#N/A	69			
	mixture				3	1/10/2025	Submi		#N/A	#N/A	#N/A	69	69	#N/A	69			
	mixture				3	1/13/2025	Submi		#N/A	#N/A	#N/A	69	69	#N/A	69			
	Mixture	1-7000 Gallon Diesel Fuel UST C			3	1/6/2025	Ce	#	#N/A	#N/A	#N/A	69	#N/A	#N/A	69			
	mixture				3	2/23/2024	Ac	#	#N/A	#N/A	#N/A	69	69	#N/A	69			
	mixture				3	1/9/2025	Submi		#N/A	#N/A	#N/A	69	69	#N/A	69			
	7664-93-9			1	8	12/27/2024	Ac	#	#N/A	264	#N/A	264	#N/A	#N/A	51			
	Mixture	Consumer Packaged Goods / Lev			2	2/27/2015	No	#	#N/A	699	#N/A	#N/A	#N/A	#N/A	69			
	7664-93-9	Chemical storage for tank make			9	2/14/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	51			
	10102-44-0					1/8/2024	Ce	#	#N/A	#N/A	#N/A	#N/A	#N/A	224	21			

Filter and Coloring

Where's Wally?

AGENDA

CT	CU	CV	CW	CC	CC	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM
																Beg	4	210
44	245	246	247	5	5	20.0010	.00	.00								End	209	277
	HC5CAS	ChemicalDe	AdditionalI	CL	D	SubmittedI			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemical
	Mixture					3/5/2024	Ac	#	#N/A	#N/A	#N/A	699	#N/A	#N/A	699			
	MIXTURE				3	11/8/2018	No	#	#N/A	#N/A	#N/A	#N/A	699	#N/A	699			
	mixture				3	1/8/2025	Ac	#	#N/A	#N/A	#N/A	699	699	#N/A	699			
	mixture				3	1/8/2025	Submi		#N/A	#N/A	#N/A	699	699	#N/A	699			
	mixture				3	1/9/2025	Submi		#N/A	#N/A	#N/A	699	699	#N/A	699			
	mixture				3	1/10/2025	Submi		#N/A	#N/A	#N/A	699	699	#N/A	699			
	mixture				3	1/10/2025	Submi		#N/A	#N/A	#N/A	699	699	#N/A	699			
	mixture				3	1/13/2025	Submi		#N/A	#N/A	#N/A	699	699	#N/A	699			
	Mixture	1-7000 Gallon Diesel Fuel UST C			3	1/6/2025	Ce	#	#N/A	#N/A	#N/A	699	#N/A	#N/A	699			
	mixture				3	2/23/2024	Ac	#	#N/A	#N/A	#N/A	699	699	#N/A	699			

627s_Wally%3F

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Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

	CU	CV	CW	CC	C	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM
																Beg	4	210
4	245	246	247	5	5	20.0010	.00	.00								End	209	277
	HC5CAS	ChemicalDe	AdditionalI	C	F	SubmittedI			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5			Chemica
	7664-93-9				18	12/27/2024	Ac	#	#N/A	264	#N/A	264	#N/A	#N/A	51			
	7664-93-9	Chemical storage for tank make			9	2/14/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	51			
	10102-44-0					1/8/2024	Ce	#	#N/A	#N/A	#N/A	#N/A	#N/A	224	21			
	1314-62-1	Weight percent not provided on M				2/26/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	133			
	7664-93-9				8	2/8/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	51			
	123-31-9					1/22/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	161			
	123-31-9					1/22/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	161			
	108-95-2					2/27/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	177			
	123-31-9					1/22/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	161			
	7664-93-9					12/27/2024	Ac	#	#N/A	#N/A	#N/A	264	#N/A	#N/A	51			

Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

CR	CS	CT	CU	CV	CW	CC	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ
242	243	244	245	246	247	55	20.0010	.00	.00							
HC	HC5Name	HC	HC5CAS	ChemicalDe	AdditionalI	CL	SubmittedD			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5
1	SULFURIC ACI	Y	7664-93-9			18	12/27/2024	Ac	#	#N/A	264	#N/A	264	#N/A	#N/A	51
2	SULFURIC ACID		7664-93-9	Chemical storage for tank make		9	2/14/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	51
	Nitrogen Oxide	N	10102-44-0				1/8/2024	Ce	#	#N/A	#N/A	#N/A	#N/A	#N/A	224	21
	Divanadium Pe	N	1314-62-1	Weight percent not provided on M			2/26/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	133
3.7	Sulfuric acid	Y	7664-93-9			8	2/8/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	51
1	Hydroquinone	Y	123-31-9				1/22/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	161
0.5	Hydroquinone	Y	123-31-9				1/22/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	161
4	Phenol		108-95-2				2/27/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	177
0.5	Hydroquinone	Y	123-31-9				1/22/2024	Ac	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	161
1	SULFURIC ACI	Y	7664-93-9				12/27/2024	Ac	#	#N/A	#N/A	#N/A	264	#N/A	#N/A	51

Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

AGENDA

Iteratively
Filter between:

4 & 209
210 & 277
278 & 284
285 & 347

And
Highlight the appropriate CAS column & Filtered Column:

4	209
210	277
278	284
285	347

CERS
is your friend!

Filter and Coloring

Where's Wally?

AGENDA

	AECCE	F	C	H	I	J	BB	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CCC	DA	DEDC	DD	DE	DF	DG	DH	DI	DJ	DK
1	n Info	Chemical Identification					Hazardous Component Information																																		Beg
2	9	205	0	207*	208	209	218*	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	55	20.0010	00	00							End
3	S	ChemicalNa		CommonNa	EI	CASNu	Maxin	I	HC1Nar	I	HC1C	I	HC2N						HC3CAS		HC4Nar		HC4CAS		HC5Nar		HC5CAS	Chemic	Additio		Submitt		ma	jc	ce	ci	cm	cq	cu	
955	N	ETHACURE 300	f	E300	N	106264-79-	660	100	6-METHYL-	N	106264-79-3																				4/16/2024	A	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
956		Amyl Butyrate	f	AMBUTY (FC CO	N	106-27-4	1125			N								N				N				N					3/1/2024	C	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
957		AMALIE Synthetic		Synthetic Transm	N	10658, 1065	24	60	1-DECENE, I	N	68037-01	0	DIPHE					N				N				N					1/14/2021	N	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
958		Butanedioic acid,		Dimethyl succina	N	106-65-0	55																							2	6/13/2024	A	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
959		Propane, 1-bromo		1-Bromopropane	N	106-94-5	55																							2	4/10/2024	A	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
960	LY	n-Propyl Bromide	f	EnSolv	N	106-94-5	220		n-Propyl Bro	N	106-94-5		Stabili					N				N				N					10/7/2024	A	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
961	O	Halogenated Hyd	f	Hypersolve	N	106-94-5	110	94	1-Bromopro	N	106-94-5																				12/20/2024	Subr	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
962		Butane	f	Butane	N	106-97-8	300																							2	12/31/2019	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
963	N	Butane		Butane	N	106-97-8	280																							2	11/9/2020	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
964	N	Butane		Butane	N	106-97-8	5939																							2	2/28/2024	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
965		Butane		Butane	N	106-97-8	1350																							2	12/13/2024	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
966	WAF	Butane		Butane	N	106-97-8	761																							2	2/20/2024	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
967		Butane		Butane	N	106-97-8	244																							2	8/10/2021	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
968	Wan	Butane		Butane	N	106-97-8	0.32	100	Butane		106-97-8																	5.1oz butane cans		2	4/23/2024	A	#	#N/A	303	303	#N/A	#N/A	#N/A	#N/A	
969	N	Butane	f	Butane	N	106-97-8	13000																							2	1/24/2025	Subr	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
970	Outs	Propane		LPG	N	106-97-8	150			N				N				N				N				N					3/22/2021	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
971	Exte	C4H10		Butane	N	106-97-8	100			N				N				N				N				N					12/30/2024	C	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
972	G	n-butane		n-butane - liquifi	N	106-97-8	42			N				N				N				N				N					1/22/2024	A	#	#N/A	303	#N/A	#N/A	#N/A	#N/A	#N/A	
973	N	Butane		Butane	N	106-97-8	24	100	butane		106-97-8																			2	10/31/2024	A	#	#N/A	303	303	#N/A	#N/A	#N/A	#N/A	
974	N	Butane		Simple Green® H	N	106-97-8	12346.2	4	Butane	N	106-97-8	1	Propane	N	0	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Remaining co	2	2/28/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
975	N	Butane		Simple Green® F	N	106-97-8	11144.3	4	Butane	N	106-97-8	1	Propane	N	74-98-6	2	Triethanolam	N	102-71-6	1	Ethoxylated (	N	68439-46-3	0	2-Propanol,	N	5131-66-8	General Purp	Remaining co	2	3/12/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
976	N	Butane		Simple Green® H	N	106-97-8	8775	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Remaining co	2	3/12/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
977	N	Butane		Simple Green® F	N	106-97-8	8049.6	4	Butane	N	106-97-8	1	Propane	N	74-98-6	2	Triethanolam	N	102-71-6	1	Ethoxylated (	N	68439-46-3	0	2-Propanol,	N	5131-66-8	General Purp	Remaining co	2	2/28/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
978	N	Butane		Foaming Crystal	N	106-97-8	3353.25	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Also contains	2	3/12/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
979	N	Butane		Foaming Crystal	N	106-97-8	2941.2	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Also contains	2	2/28/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
980	N	Butane		Simple Green® A	N	106-97-8	2515.5	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Also contains	2	3/12/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
981	N	Butane		Simple Green® B	N	106-97-8	1848.6	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Trisodium Cit	N	68-04-2	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	General Purp	Also contains	2	2/28/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
982	N	Butane		Simple Green® B	N	106-97-8	1580.25	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Also contains	2	3/12/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
983	N	Butane		Simple Green® A	N	106-97-8	288	4	Butane	N	106-97-8	1	Propane	N	74-98-6	1	Ethoxylated (	N	68439-46-3	1	Nonyl alcoho	N	39587-22-9	1	Trisodium Cit	N	68-04-2	General Purp	Also contains	2	2/28/2024	A	#	#N/A	303	303	332	#N/A	#N/A	#N/A	
984		Antifreeze - Zere	f	Antifreeze	N	107-21-1	55	60	Ethylene Gl	N	107-21-1	40	Denatonium Benz	3734-33-6																	8/13/2024	A	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
985	Whit	1,2-Ethanediamine		Ethylenediamine	N	107-15-3	55																							2	1/17/2025	C	#	#N/A	276	#N/A	#N/A	#N/A	#N/A	#N/A	
986	N	Glycine, N-(phos	f	Glyphosate	N	1071-83-6	200																							7	4/6/2020	A	#	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	

Haz Comp 3 - CAS Number

Chemical Abstract Service (CAS) number related to hazardous component in the mixture.

CERS *is* your friend!

CALIFORNIA CUPA FORUM

27th California Unified Program Annual Training Conference
March 24-27, 2025

Second Half

AGENDA

Work – Where the magic happens--eventually

Classes – More Excel to do

Data Bases/CERS – Prepping the Data

Phase 1 – Filter & Color

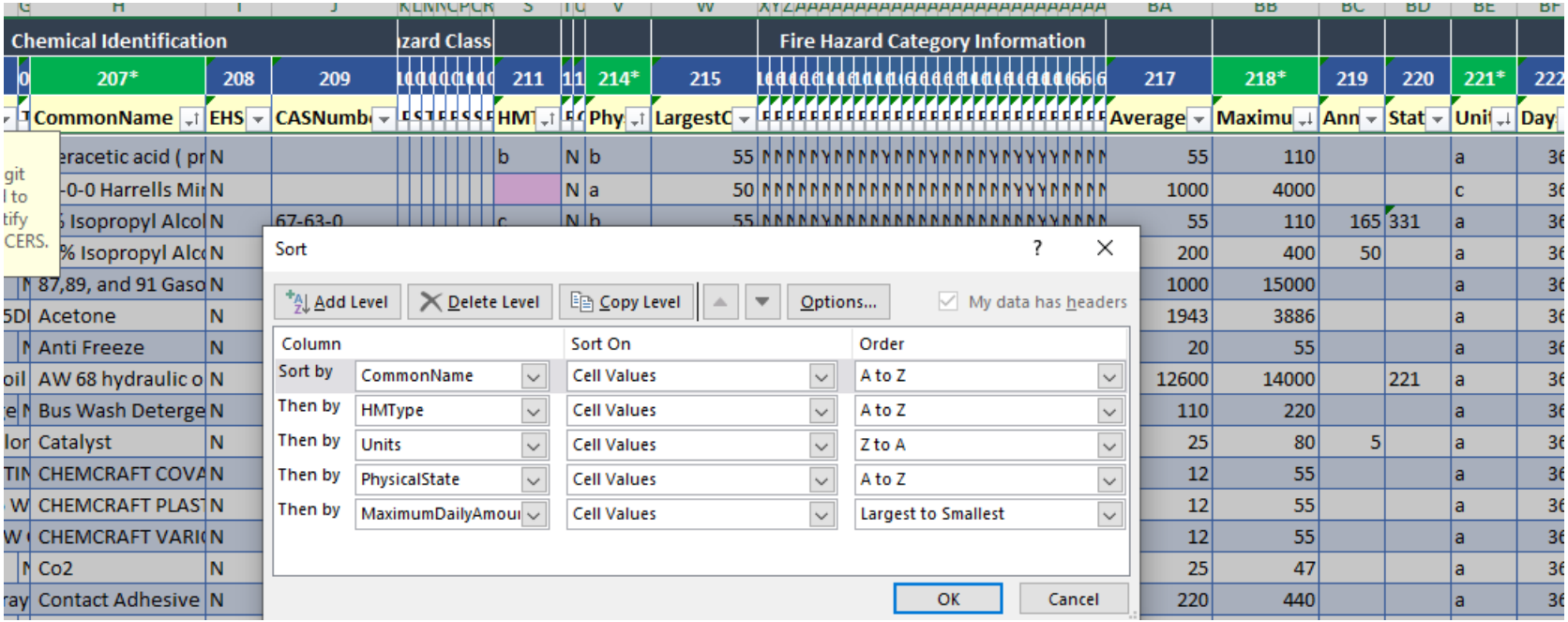
Phase 2 – Re-Sort alphabetic

Analysis

CERS *is* your friend!

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

How Magic Happens



Magic Happens

F	G	H	I	J	KLMNOPQR	S	TU	V	W	XYZAAAAAAAAAAAAAAAAAAAAAAAAAA	BA	BB	BC	BD	BE	BF
Chemical Identification					zard Class					Fire Hazard Category Information						
205	0	207*	208	209		211	11	214*	215		217	218*	219	220	221*	22
ChemicalName	T	CommonName	EHS	CASNumb		HMT	F(	Phy	LargestC		Average	Maximu	Ann	Stat	Unit	Day
(WASTE) HYDRAUL	N	(WASTE) HYDRAUL	N	70514-12-4		b	N	b	2000	N N N N N N N N N N N N N Y N Y Y Y Y Y Y Y N N	822	2055	0		a	3
(WASTE) OILY SOIL	N	(WASTE) OILY SOIL	N	7732-18-5		b	N	b	273.97	N N N N N N N N N N N N N Y N Y Y Y Y Y Y Y N N	219.18	547.95	0		a	3
Aluminum Sulfate,	N	*Alum Solution	N	10043-01-3		b	N	b	20000	N N N N N N N N N N N N N N Y N N N N N N N N Y N N N N N	100000	100000	0		a	3
Aluminum Sulfate,	N	*Alum Solution Wa	N	10043-01-3		c	N	b	55	N N N N N N N N N N N N N N Y N N N N N N N N Y N N N N N	15	55	0		a	3
Aqua Ammonia	N	*Aqua Ammonia (1	N	1336-21-6		b	N	b	12000	N N N N N N N N N N N N N N Y N N N N Y N Y N Y N Y N N N	34000	46000	0		a	3
Aqua Ammonia	N	*Aqua Ammonia (1	N	36-21-6		c	N	b	55	N N N N N N N N N N N N N N Y N N N N Y N Y N Y N Y N N N	15	55	0	122	a	3
Sodium Hydroxide	N	*Caustic Soda (20%	N	1310-73-2		b	N	b	5000	N N N N N N N N N N N N N N Y N N N N Y N Y N Y N N N N N	10000	10000	0		a	3
Sodium Hydroxide	N	*Caustic Soda (25 t	N	1310-73-2		b	N	b	50000	N N N N N N N N N N N N N N Y N N N N Y N Y N Y N N N N N	80000	100000	0		a	3
Sodium Hydroxide	N	*Caustic Soda (25 t	N	1310-73-2		c	N	b	55	N N N N N N N N N N N N N N Y N N N N Y N Y N Y N N N N N	15	55	0	122	a	
Chlorine	N	*Chlorine	Y	7782-50-5		a	N	b	38000	N N N N N N Y N N N Y N N N Y N N N N Y N Y N Y Y N N N N	228000	228000	0		c	3
Silicate(2-), hexafl	N	*Fluorosilicic Acid	N	16961-83-4		b	N	b	8000	N N N N N N N N N N N N N N Y N N N N N N Y N Y Y N N N N	8000	16000			a	3

Magic Happens

F	G	H	I	J	K–P	S	T–U	V	W	X–AAA	BA	BB	BC	BD	BE	BF	BG–BY	BZ	CA	CB	CC	CD	CE	CF
		Chemical Identification			Hazard Class				Fire Hazard Category Information								Storage Container Information*							
205		207*	208	209		211		214*	215		217	218*	219	220	221*	222		224	225	226	227	228	229	
ChemicalName		CommonName	EHS	CASNumb		HM		Phy	Largest(		Average	Maximu	Ann	Stat	Uni(	Day		Sto(	Sto(	H	HC1Name	H	HC1CAS	H
Mixed Solvent Was		Acetonitrile/Water	N	75-05-8		c	N	b	55		25	55	220	331	a	365	N N N Y N N N N N N N N N N N N N N	a	a	10	Acetonitrile		75-05-8	
Acetylene		acetylene	N	74-86-2		a	N	c	129		387	903			b	365	N N N N N N N N N Y N N N N N N N	b	a			N		
Acetyl Propionyl		Acetyl Propionyl	N	600-14-6		a	N	b	5		25	50			a	365	N N N N Y N N N N N N N N N N N N	a	a					
EMULFLUID A		ACETYLATED SOY LE	N			a	N	b	55		715	715			a	365	N N N Y N N N N N N N N N N N N	a	a			N		
Acetylene		Acetylen Gas	N	74-86-2		a	N	c	400		1000	4000	0		b	365	N N N N N N N N N N Y N N N N N N	b	a			N		
Acetylene		Acetylene	N	74-86-2		a	N	c	50		100	100			c		N N N N N N N N N Y N N N N N N							
Acetylene		Acetylene	N	74-86-2		a	N	c				1			c	366	N N N N N N N N Y N N N N N N N							
ACETYLENE		ACETYLENE	N	74-86-2		a	N	a	145		290	290	0		b	365	N N N N N N N N N N N N N N N N	a	a					
Acetylene		Acetylene	N	74-86-2		a	N	b	100		50	100			b	365	N N N N N N N N N N N N N N N N	c				N		
Acetylene		Acetylene	N	74-86-2		a	N	c	327		24896	56501			b	365	N N N N N N N N N N N N N N N N		a					
Acetylene		Acetylene	N	74-86-2		a	N	c	391		35000	50000			b	365	N N N N N N N N N N N N N N N N		a	99	Acetylene	N	74-86-2	
Acetylene		Acetylene	N	74-86-2		a	N	c	330		12000	19500	0		b	365	N N N N N N N N N N N N N N N N		a					
ACETYLENE		ACETYLENE	N	74-86-2		a	N	c	300		6000	15000	0		b	365	N N N N N N N N N N N N N N N N		a			N		
Acetylene		Acetylene	N	74-86-2		a	N	c	420		6000	12500	0		b	365	N N N N N N N N N N Y N N N N N n/a	b	a			N		
Acetylene		Acetylene	N	74-86-2		a	N	c	420		4000	6400			b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	390		3900	5000	0		b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	300		3000	4800			b	365	N N N N N N N N N N Y N N N N N N	b	a			N		
acetylene		acetylene	N	74-86-2		a	N	c	420		2560	4000			b	365	N N N N N N N N N N Y N N N N N N	b	a			N		
Acetylene		Acetylene	N	74-86-2		a	N	c	365		2518	4000			b	365	N N N N N N N N N N Y N N N N N N	b	a					
acetylene		acetylene	N	74-86-2		a	N	c	420		2560	4000	0		b	365	N N N N N N N N N N Y N N N N N N	b	a	100	acetylene	N	74-86-2	
ACETYLENE		ACETYLENE	N	74-86-2		a	N	c	250		2000	4000	0		b	365	N N N N N N N N N N Y N N N N N N	b	a					
ACETYLENE		ACETYLENE	N	74-86-2		a	N	c	35			3425			b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	145		2175	3000	0		b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	300		2698	2698			b	365	N N N N N N N N N N Y N N N N N N	a	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	145		1305	2610	0		b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	360		1250	2569			b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	250		500	2500			b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	140		1680	2380			b	365	N N N N N N N N N N Y N N N N N N	b	a					
		Acetylene	N			a	N	c	390		1560	2340	0		b	365	N N N N N N N N N N Y N N N N N N	b	a					
Acetylene		Acetylene	N	74-86-2		a	N	c	145		1300	2300			b	365	N N N N N N N N N N Y N N N N N N	b	a			N		
Acetylene		Acetylene	N	74-86-2		a	N	c	420		1260	2270	0		b	365	N N N N N N N N N N Y N N N N N N	b	a	100	Acetylene		74-86-2	
Acetylene		Acetylene	N	74-86-2		a	N	c	320		2206	2268			b	365	N N N N N N N N N N Y N N N N N N	b	a			N		

Storage Cont = Underground Tank
Indicates that material is stored in an Underground Tank.

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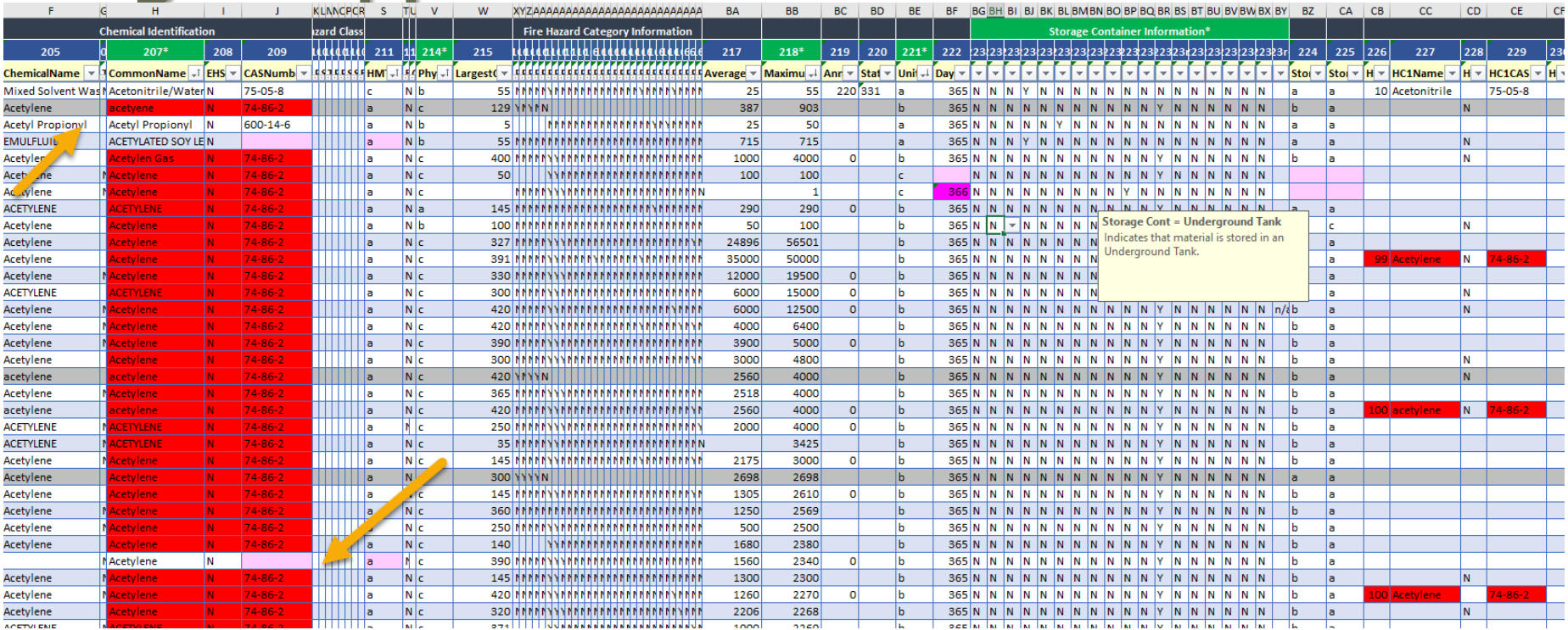

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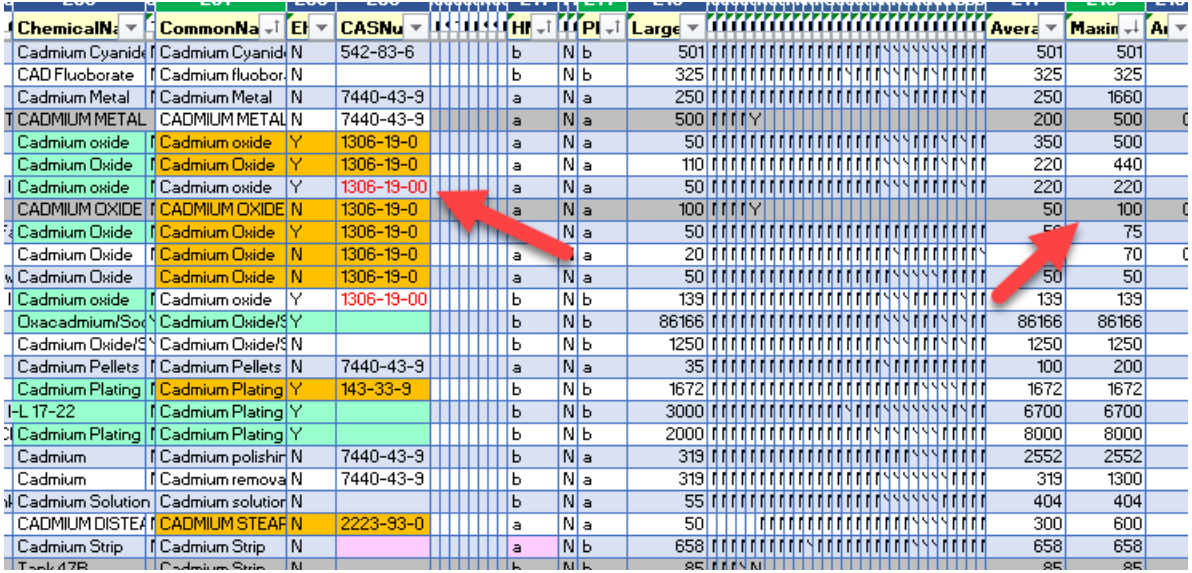
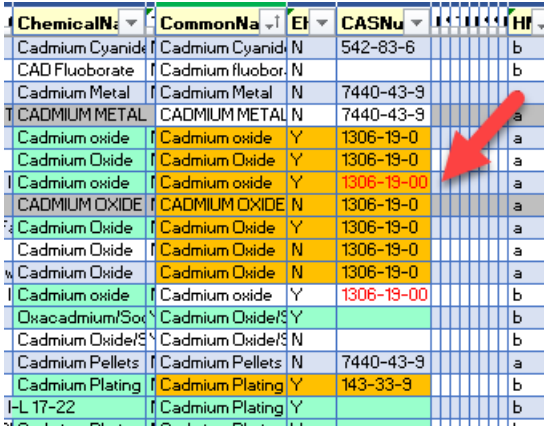


ChemicalNa	CommonNa	EH	CASNu	HH	PH	Large	Avera	Maxin
Cadmium Cyanide	Cadmium Cyanide	N	542-83-6	b	N b	501	501	501
CAD Fluoborate	Cadmium fluobor	N		b	N b	325	325	325
Cadmium Metal	Cadmium Metal	N	7440-43-9	a	N a	250	250	1660
CADMIUM METAL	CADMIUM METAL	N	7440-43-9	a	N a	500	200	500
Cadmium oxide	Cadmium oxide	Y	1306-19-0	a	N a	50	350	500
Cadmium Oxide	Cadmium Oxide	Y	1306-19-0	a	N a	110	220	440
Cadmium oxide	Cadmium oxide	Y	1306-19-00	a	N a	50	220	220
CADMIUM OXIDE	CADMIUM OXIDE	N	1306-19-0	a	N a	100	50	100
Cadmium Oxide	Cadmium Oxide	Y	1306-19-0		N a	50		75
Cadmium Oxide	Cadmium Oxide	N	1306-19-0	a	a	20		70
Cadmium Oxide	Cadmium Oxide	N	1306-19-0	a	N a	50	50	50
Cadmium oxide	Cadmium oxide	Y	1306-19-00	b	N b	139	139	139
Oxacadmium/Soc	Cadmium Oxide/S	Y		b	N b	86166	86166	86166
Cadmium Oxide/S	Cadmium Oxide/S	N		b	N b	1250	1250	1250
Cadmium Pellets	Cadmium Pellets	N	7440-43-9	a	N a	35	100	200
Cadmium Plating	Cadmium Plating	Y	143-33-9	b	N b	1672	1672	1672
I-L 17-22	Cadmium Plating	Y		b	N b	3000	6700	6700
Cadmium Plating	Cadmium Plating	Y		b	N b	2000	8000	8000
Cadmium	Cadmium polishir	N	7440-43-9	b	N a	319	2552	2552
Cadmium	Cadmium remova	N	7440-43-9	b	N a	319	319	1300
Cadmium Solution	Cadmium solution	N		b	N a	55	404	404
CADMIUM DISTEA	CADMIUM STEAR	N	2223-93-0	a	N a	50	300	600
Cadmium Strip	Cadmium Strip	N		a	N b	658	658	658



ChemicalNa	CommonNa	EH	CASNu	HH
Cadmium Cyanide	Cadmium Cyanide	N	542-83-6	b
CAD Fluoborate	Cadmium fluobor	N		b
Cadmium Metal	Cadmium Metal	N	7440-43-9	
CADMIUM METAL	CADMIUM METAL	N	7440-43-9	a
Cadmium oxide	Cadmium oxide	Y	1306-19-0	a
Cadmium Oxide	Cadmium Oxide	Y	1306-19-0	a
Cadmium oxide	Cadmium oxide	Y	1306-19-00	a
CADMIUM OXIDE	CADMIUM OXIDE	N	1306-19-0	a
Cadmium Oxide	Cadmium Oxide	Y	1306-19-0	a
Cadmium Oxide	Cadmium Oxide	N	1306-19-0	a
Cadmium Oxide	Cadmium Oxide	N	1306-19-0	a
Cadmium oxide	Cadmium oxide	Y	1306-19-00	b
Oxacadmium/Soc	Cadmium Oxide/S	Y		b
Cadmium Oxide/S	Cadmium Oxide/S	N		b
Cadmium Pellets	Cadmium Pellets	N	7440-43-9	a
Cadmium Plating	Cadmium Plating	Y	143-33-9	b
I-L 17-22	Cadmium Plating	Y		b

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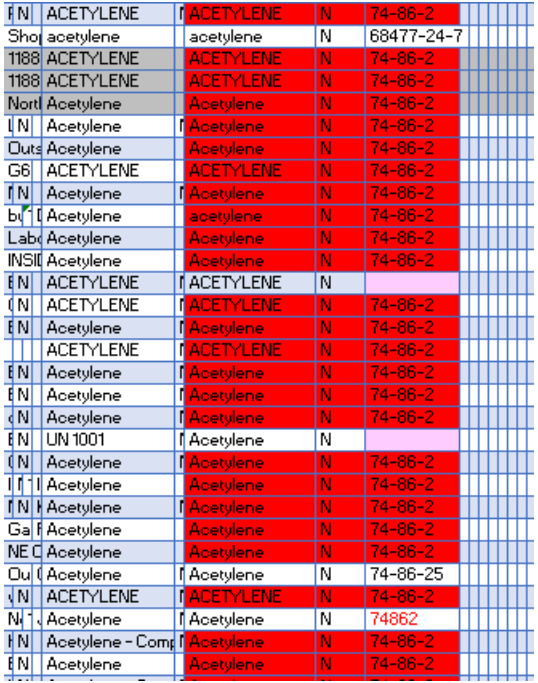
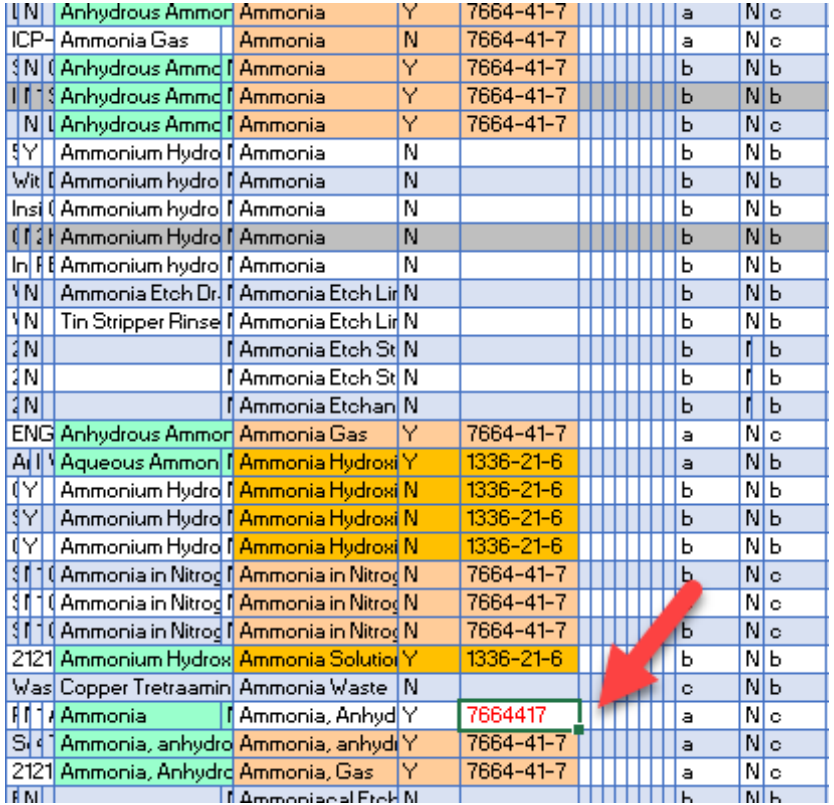
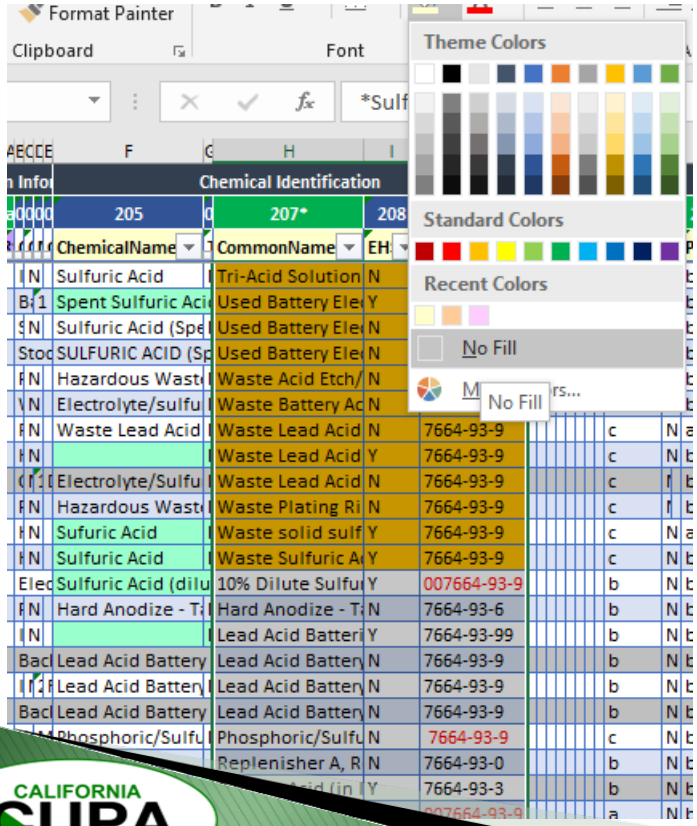


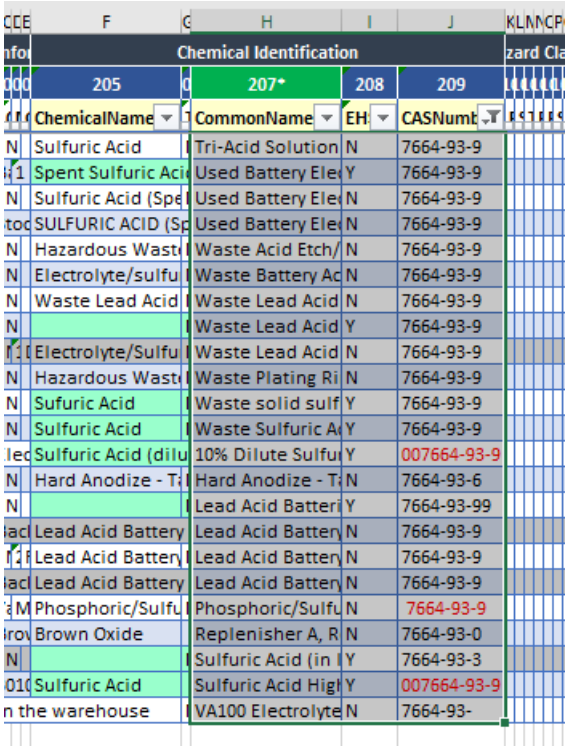
N	ACETYLENE	ACETYLENE	N	74-86-2
Sho	acetylene	acetylene	N	68477-24-7
1188	ACETYLENE	ACETYLENE	N	74-86-2
1188	ACETYLENE	ACETYLENE	N	74-86-2
Nort	Acetylene	Acetylene	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
Outs	Acetylene	Acetylene	N	74-86-2
G6	ACETYLENE	ACETYLENE	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
Labo	Acetylene	acetylene	N	74-86-2
INSI	Acetylene	Acetylene	N	74-86-2
N	ACETYLENE	ACETYLENE	N	
N	ACETYLENE	ACETYLENE	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
	ACETYLENE	ACETYLENE	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
N	UN 1001	Acetylene	N	
N	Acetylene	Acetylene	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2
Ga	Acetylene	Acetylene	N	74-86-2
NE C	Acetylene	Acetylene	N	74-86-2
Ou	Acetylene	Acetylene	N	74-86-25
N	ACETYLENE	ACETYLENE	N	74-86-2
N	Acetylene	Acetylene	N	74862
N	Acetylene - Comp	Acetylene	N	74-86-2
N	Acetylene	Acetylene	N	74-86-2



N	Anhydrous Ammor	Ammonia	Y	7664-41-7	a	N	c
ICP-	Ammonia Gas	Ammonia	N	7664-41-7	a	N	c
N	Anhydrous Ammo	Ammonia	Y	7664-41-7	b	N	b
	Anhydrous Ammo	Ammonia	Y	7664-41-7	b	N	b
N	Anhydrous Ammo	Ammonia	Y	7664-41-7	b	N	c
Y	Ammonium Hydro	Ammonia	N		b	N	b
Wit	Ammonium hydro	Ammonia	N		b	N	b
Insi	Ammonium hydro	Ammonia	N		b	N	b
	Ammonium Hydro	Ammonia	N		b	N	b
In	Ammonium hydro	Ammonia	N		b	N	b
N	Ammonia Etch Dr.	Ammonia Etch Lir	N		b	N	b
N	Tin Stripper Rinse	Ammonia Etch Lir	N		b	N	b
N		Ammonia Etch St	N		b		b
N		Ammonia Etch St	N		b		b
N		Ammonia Etchan	N		b		b
ENG	Anhydrous Ammor	Ammonia Gas	Y	7664-41-7	a	N	c
A	Aqueous Ammon	Ammonia Hydroxi	Y	1336-21-6	a	N	b
Y	Ammonium Hydro	Ammonia Hydroxi	N	1336-21-6	b	N	b
Y	Ammonium Hydro	Ammonia Hydroxi	N	1336-21-6	b	N	b
Y	Ammonium Hydro	Ammonia Hydroxi	N	1336-21-6	b	N	b
	Ammonia in Nitrog	Ammonia in Nitrog	N	7664-41-7	b	N	c
	Ammonia in Nitrog	Ammonia in Nitrog	N	7664-41-7		N	c
	Ammonia in Nitrog	Ammonia in Nitrog	N	7664-41-7	b	N	c
2121	Ammonium Hydrox	Ammonia Solutio	Y	1336-21-6	b	N	b
Was	Copper Tretraamin	Ammonia Waste	N		c	N	b
	Ammonia	Ammonia, Anhyd	Y	7664417	a	N	c
S	Ammonia, anhydro	Ammonia, anhydr	Y	7664-41-7	a	N	c
2121	Ammonia, Anhydro	Ammonia, Gas	Y	7664-41-7	a	N	c
N		Ammoniacal Etch	N		b	N	b

Magic Happens





CALIFORNIA CUPA FORUM

27th California Unified Program
Annual Training Conference
March 24-27, 2025

Second Half

AGENDA

Work – Where the magic happens--eventually

Classes – More Excel to do

Data Bases/CERS – Prepping the Data

Phase 1 – Filter & Color

Phase 2 – Re-Sort alphabetic

Analysis

CERS *is* your friend!

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

27th California Unified Program Annual Training Conference
March 24-27, 2025

CALIFORNIA CUPA FORUM

More Instructions/tips

Re-sort the list again this time by color

Search the Chemical Name and Common Name Using the CalARP Keyword

Filter again by Units

Review the TQ for the RS and

Filter the list again in the Maximum Daily Amount

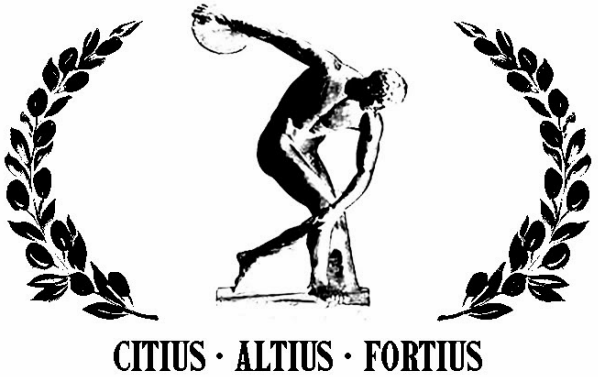
TQs and above should be highlighted

Maximum Daily Amounts around the TQ are highlighted with a different shade

For those volumes significantly less than TQ I don't highlight

CERS Sleuths Slogan

Continuus
Iterativus
Saepius



Continually
Iteratively
Repeatedly

Again

For each RS this process is repeated

Continuus
Iterativus
Saepius

Adjust your highlighting to match the Maximum Daily Volume
Re-sort the list with the additional colors

Again?

Data:

Filtered

Colored

Sorted

Saepius

For each CAS Column

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

Analysis—not quite yet

Where's Wally?

wiki/Where%27s_Wally%3F

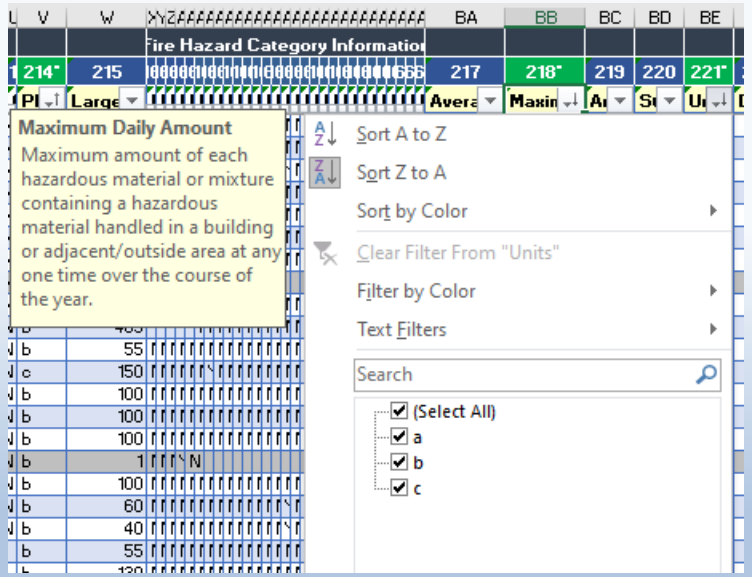
F	H	I	J	S	V	W	BA	BB	BC	BD	BE	BF	BG	BH
Chemical Identification				zard Clas			Fire Hazard Category Information							
205	207	208	209	211	214	215	217	218	219	220	221	222	232	
ChemicalNa	CommonNa	EH	CASNu	HM	Pl	Large	Avera	mount	Ar	St	Ur	Da		
ANHYDROUS AM	Anhydrous Ammo	Y	7664-41-7	a	b	5611	6155.2	6155.2						
Ammonium Hydro	Aqua Ammonium	N	7664-41-7	a	b	55	55							
Aqueous Ammon	Aqueous Ammon	Y	7664-41-7	a	b	45573	30125	45						
Aqua Ammonia S	Aqueous Ammon	N	7664-41-7	b	b	360	200							
Aqua Ammonia S	Aqueous Ammon	N	7664-41-7	b	b	50	100							
1090168	KIK PUREBRIGHT	N	7664-41-7	b	b	0.5	23.45							
J-M 30-31	Waste, Ammonia	N		c	b	450	450							
X-3	"Waste, Ammonia	N		c	b	55	55							
19% Aqua Ammon	19% Aqua Ammo	Y		b	b	0	0							
H8	A-11 Ammonium E	N		b	b	405	405							
Ammonium Hydro	ADD-0002 Ammo	N		b	b	55	55	110	0		a	365	N	N
Air	Air/Ammonia	N		b	c	150	150	300	0		b	365	N	N
Ammonium Hydro	Ammonia	N		b	b	100	75	100			a	365	Y	N
Ammonium hydro	Ammonia	N		b	b	100	100	100	0		a	365	Y	N
Ammonium hydro	Ammonia	N		b	b	100	100	100	0		a	365	Y	N
Ammonium Hydro	Ammonia	N		b	b	1	6	12			a	365	N	N
Ammonium hydro	Ammonia	N		b	b	100	100	100			a	365	Y	N
Ammonia Etch Dr	Ammonia Etch Lir	N		b	b	60	60	60			a	365	N	N
Tin Stripper Rinse	Ammonia Etch Lir	N		b	b	40	40	40			a	365	N	N
	Ammonia Etch St	N		b	b	55	220	220	0		a	365	N	N
	Ammonia Etch St	N		b	b	130	130	130	0		a	365	Y	N
	Ammonia Etchan	N		b	b	55	220	220	0		a	365	Y	N
Copper Tetraamin	Ammonia Waste	N		c	b	55	25	55	440	121	a	365	N	N
Ammonia	Ammonia, Anhyd	Y	7664417	a	c	2224	3904	5164			c	365	Y	N
	Ammoniacal Etch	N		b	b	280	280	280			a	365	N	N
AMMONIUM SULF	AMMONIUM BAS	N	7783-20-2	a	a	50	2000	10000	0		c	365	N	N
Ammonium Hydrog	Ammonium Hydro	N	1341-49-7	a	a	55.1	350	850	0		c	365	N	N
Ammonium Hydro	Ammonium Hydro	N		b	a	2500	500	2500			c	365	N	N
Ammonia	Ammonium Hydro	Y		b	b	55	50	1200			c	365	N	N
F3	AMMONIUM HYD	N		b	b	55	55	55			a	365	N	N
Ammonium hydro	Ammonium hydro	N	7681-52-9	b	b	275	275	275	0		a	365	Y	N

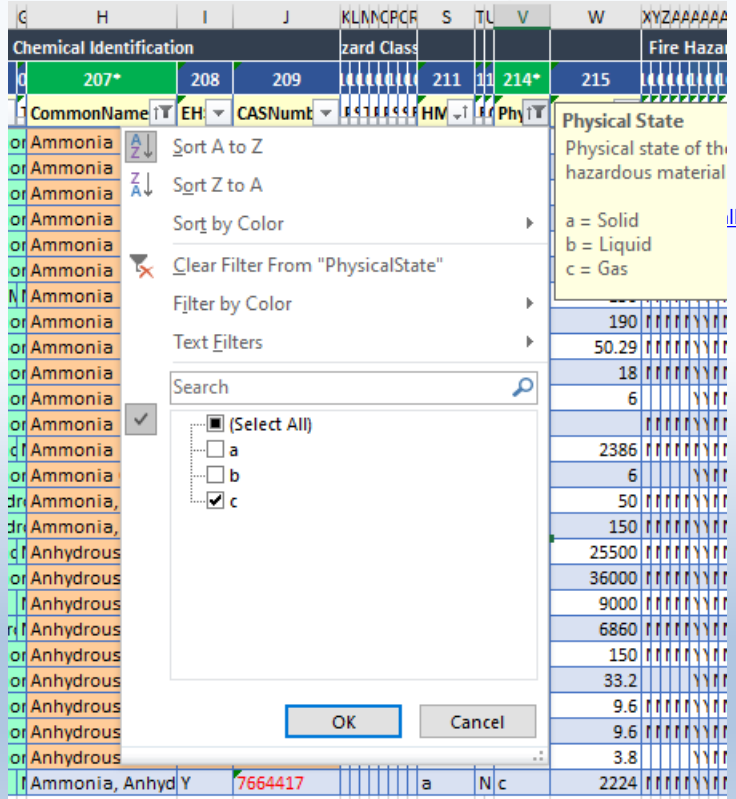
Maximum Daily Amount
Maximum amount of each hazardous material or mixture containing a hazardous material handled in a building or adjacent/outside area at any one time over the course of the year.

is your friend!

Filtering

Where's Wally?





AGENDA

CERS is your friend!

27th California Unified Program
Annual Training Conference
March 24-27, 2025

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Almost Analysis

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

F	G	H	I	J	K–AA	S	T–U	V	W	AB–AZ	BA	BB	BC
Chemical Identification					zard Class				Fire Hazard Category Information				
205		207*	208	209		211		214*	215		217	218*	219
ChemicalName		CommonName	EH	CASNumb		HM		Phy	Average Daily Amount		Averag	Maximi	An
Anhydrous Ammor		Ammonia	N	7664-41-7		a	N	c			4952	22858	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c			14400	14400	0
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c			7500	7500	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c			7400	7400	0
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c			3334	3334	0
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c			3300	3300	0
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	2200		3060	3060	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	150		450	450	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	150		145	435	
ANHYDROUS AMN		Ammonia	Y	7664-41-7		a	N	c	150		5	300	0
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	190		190	190	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	50.29		50.29	50.29	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	18		12	18	0
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c	6		6	6	
Anhydrous Ammor		Ammonia	Y	7664-41-7		a	N	c			3	3.85	
Anhydrous Ammc		Ammonia	Y	7664-41-7		b	N	c	2386		1193	2386	0
Anhydrous Ammor		Ammonia Gas	Y	7664-41-7		a	N	c	6		11	11	
Ammonia, anhydr		Ammonia, anhyd	Y	7664-41-7		a	N	c	50		30	50	
Ammonia, Anhydr		Ammonia, Gas	Y	7664-41-7		a	N	c	150		750	1800	0
Anhydrous Ammc		Anhydrous Ammc	Y	7664-41-7		a	N	c	25500		83000	83000	
Anhydrous Ammor		Anhydrous Ammc	Y	7664-41-7		a	N	c	36000		36000	36000	
Ammonia		Anhydrous Ammc	Y	7664-41-7		a	N	c	9000		9000	9000	0
Ammonium Hydr		Anhydrous Ammc	Y	7664-41-7		a	N	c	6860		6860	6860	
Anhydrous Ammor		Anhydrous Ammc	Y	7664-41-7		a	N	c	150		450	450	
Anhydrous Ammor		Anhydrous Ammc	Y	7664-41-7		a	N	c	33.2		33.2	33.2	
Anhydrous Ammor		Anhydrous Ammc	Y	7664-41-7		a	N	c	9.6		20.8	20.8	
Anhydrous Ammor		Anhydrous Ammc	Y	7664-41-7		a	N	c	9.6		10.6	10.6	
Anhydrous Ammor		Anhydrous Ammc	Y	7664-41-7		a	N	c	3.8		3.8	3.8	
Ammonia		Ammonia, Anhyd	Y	7664417		a	N	c	2224		3904	5164	

Average Daily Amount
Average daily amount of hazardous material or mixture containing a hazardous material in each building or adjacent/outside area.

More Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

AGENDA

Chemical Identification			zard Class									
207*	208	209	211		214*	215	217	218*	219	220	221*	
CommonName	EH	CASNumb	HM		Phy	Largest	Average	Maxim	Ann	Sta	Un	D
Ammonia	N	7664-41-7	a	N	c	167	104	167		141	b	
Ammonia in Nitr	N	7664-41-7	b	N	c	200	200	200			b	
Ammonia in Nitr	N	7664-41-7	b	N	c	200	200	200			b	
Ammonia in Nitr	N	7664-41-7	b	N	c	200	200	200			b	
Air/Ammonia	N		b	N	c	150	150	300	0		b	
Nonflammable G	N		b	N	c	144	300	600	0		b	

Units
Unit of measure which is most appropriate for the material being reported on this page.

a = Gallons
b = Cubic Feet
c = Pounds
d = Tons

H	I	J	S	T	U	V	W	BA	BB	BC	BD	BE	BF
Chemical Identification													
207*	208	209	211			214*	215	217	218*	219	220	221*	222
CommonName	EH	CASNumb	HM			Phy	Largest	Average	Maxim	Ann	Sta	Un	Da
Ammonia	N	54-41-7	a	N		c	167	104	167		141	b	36
Ammonia in Nitr	N	7664-41-7	b	N		c	200	200	200			b	36
Ammonia in Nitr	N	7664-41-7	b	N		c	200	200	200			b	36
Ammonia in Nitr	N	7664-41-7	b	N		c	200	200	200			b	36

Fire Hazard Category Information

CERS
is your friend!

Filter and Coloring

H	I	J	K L M N C P C R	S	T U	V	W	BA	BB	BC	BD	BE	CB	CC	CD	CE
emical Identification			zard Class													
207*	208	209		211	11	214*	215	217	218*	219	220	221*	226	227	228	229
CommonName	EH	CASNumb		HM		Phy	Largest	Averag	Maximu	An	Sta	Un	H	HC1Name	H	HC1CAS
Aqueous Ammon	N	1336-21-6		b	N	b	261	200	261			a	20	Ammonia	Y	7664-41-7
Aqueous Ammon	N	1336-21-6		b	N	b	2500	2500	5000			a	30	Ammonia	N	1336-21-6
Aqueous Ammon	N	1336-21-6		b	N	b	500	500	750		133	a	17	Ammonia	N	1336-21-6
Liquid Ammonia	N	1336-21-6		b	N	b	55	110	110	0		a	70	Water	N	7732185
Printing Ink with	N	1336-21-6		b	N	b	5	8	250			a	4	Ammonium	Y	1336-21-6
Agua Ammonia	Y	7664-41-7		b	N	b	410.3	223.8	820.6			a	30	Amonia	Y	7664-41-7
Aqua Ammonium	N	7664-41-7		a	N	b	55	55	55			a				
Aqueous Ammon	N	7664-41-7		b	N	b	360	200	360			a	30	Aqueous An	N	7664-41-7
Aqueous Ammon	N	7664-41-7		b	N	b	50	100	150	0		a	30	Anhydrous A	N	7664-41-7
KIK PUREBRIGHT	N	7664-41-7		b	N	b	0.5	23.45	250			a	3	Ammonia	N	7664-41-7
*Waste, Ammoni	N			c	N	b	55	55	55	550	343	a				
A-11 Ammonium	N			b	N	b	405	405	405			a	67	Ammonia Bi	N	1341-49-7
ADD-0002 Ammor	N			b	N	b	55	55	110	0		a	20	Ammonium	N	1336-21-6
Ammonia	N			b	N	b	100	75	100			a	29	Ammonium	N	1336-21-6

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

AGENDA

CERS *is* your friend!

CALIFORNIA CUPA FORUM

27th California Unified Program
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Magic Happens

Search the Chemical Name and Common Name Using the CalARP Keyword
Filter again by Units
Review the TQ for the RS and
Filter the list again in the Maximum Daily Amount
TQs and above should be highlighted
Maximum Daily Amounts around the TQ are highlighted with a different shade
For those volumes significantly less than TQ I don't highlight

Analysis with Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

H	I	J	KLMNOPQR	S	TU	V	W	BA	BB	BC	BD	BE	CB	CC	CD	CE	CF
hemical Identification			zard Class														
207*	208	209		211	11	214*	215	217	218*	219	220	221*	226	227	228	229	230
CommonName	EH	CASNumb		HM		Phy	Largest	Averag	Maxim	An	Sta	Un	H	HC1Name	H	HC1CAS	H
Aqueous Ammon	N	1336-21-6		b	N	b	275	550	550	0	122	a	19	AMMONIUM	N	1336-21-6	81
Aqueous Ammon	N	1336-21-6		b	N	b	261	200	261			a	20	Ammonia	Y	1336-21-6	80
Aqueous Ammon	N	1336-21-6		b	N	b	261	210	261			a	20	Ammonia	Y	7664-41-7	80
Aqueous Ammon	N	1336-21-6		b	N	b	261	200	261			a	20	Ammonia	Y	7664-41-7	80
Aqueous Ammon	N	1336-21-6		b	N	b	2500	2500	5000			a	30	Ammonia	N	1336-21-6	
Aqueous Ammon	N	1336-21-6		b	N	b	500	500	750		133	a	17	Ammonia	N	1336-21-6	
Liquid Ammonia	N	1336-21-6		b	N	b	55	110	110	0		a	70	Water	N	7732185	30
Printing Ink with	N	1336-21-6		b	N	b	5	8	250			a	4	Ammonium	Y	1336-21-6	
Agua Ammonia	Y	7664-41-7		b	N	b	410.3	223.8	820.6			a	30	Amonia	Y	7664-41-7	70
Aqua Ammonium	N	7664-41-7		a	N	b	55	55	55			a					
Aqueous Ammon	N	7664-41-7		b	N	b	360	200	360			a	30	Aqueous An	N	7664-41-7	
Aqueous Ammon	N	7664-41-7		b	N	b	50	100	150	0		a	30	Anhydrous A	N	7664-41-7	
KIK PUREBRIGHT	N	7664-41-7		b	N	b	0.5	23.45	250			a	3	Ammonia	N	7664-41-7	
*Waste, Ammoni	N			c	N	b	55	55	55	550	343	a					
Aqua Ammonia	N			b	N	b	4250	3000	4250	0		a	19	Anhydrous A	N	7664-41-7	81
Aqua Ammonia	N			b	N	b	55	55	110			a	20	AMMONIUM	N	1336-21-6	80
Aqueous Ammon	N			b	N	b	4000	4000	4000	0		a	81	Water	N	7732-18-5	19
Aqueous Ammon	N			b	N	b	4000	4000	4000	0		a	81	Water	N	7732-18-5	19
AQUEOUS AMMOI	N			b	N	b	300	200	300			a	30	Anhydrous Amm		7664-41-7	70
Aqueous Ammon	Y			b	N	b	298	200	298		122	a	30	Anhydrous Amm		7664-41-7	70
Aqueous Ammon	N			b	N	b	220	200	220	0		a	100	Ammonium Hydr		1336-21-6	20
Clear Ammonia	N			b	N	b	1	100	120	0		a		Water	N	7732-18-5	3

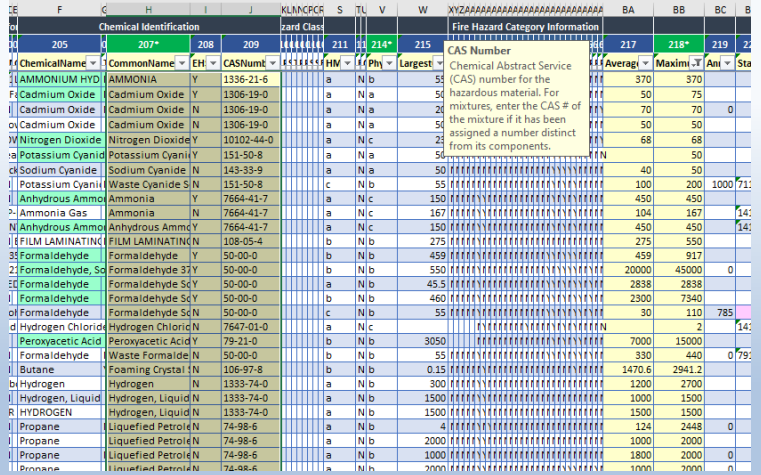
Filter and Coloring

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

Chemical Identification										Fire Hazard Category Information						
205	207*	208	209				214*	215		217	218*	219				
ChemicalName	CommonName	EH	CASNumb			HM	Ph	Largest		erag	Maximi	An	S			
AMMONIUM HYD	AMMONIA	Y	1336-21-6			a	b	55		370	370					
Cadmium Oxide	Cadmium Oxide	Y	1306-19-0			a	a	50		50	75					
Cadmium Oxide	Cadmium Oxide	N	1306-19-0			a	a	20		70	70	0				
Cadmium Oxide	Cadmium Oxide	N	1306-19-0			a	a	50		50	50					
Nitrogen Dioxide	Nitrogen Dioxide	Y	10102-44-0			a	c	23		68	68					
Potassium Cyanid	Potassium Cyanid	Y	151-50-8			a	a	50			50					
Sodium Cyanide	Sodium Cyanide	N	143-33-9			a	a	50		40	50					
Potassium Cyanid	Waste Cyanide S	N	151-50-8			c	b	55		100	200	1000	7			
Anhydrous Ammor	Ammonia	Y	7664-41-7			a	c	150		450	450					
Ammonia Gas	Ammonia	N	7664-41-7			a	c	167		104	167		1			
Anhydrous Ammor	Anhydrous Ammo	Y	7664-41-7			a	c	150		450	450		1			
FILM LAMINATING	FILM LAMINATING	N	108-05-4			b	b	275		275	550					
Formaldehyde	Formaldehyde	Y	50-00-0			b	b	459		459	917					
Formaldehyde, So	Formaldehyde 37	Y	50-00-0			b	b	550		20000	45000	0				
Formaldehyde	Formaldehyde Sc	Y	50-00-0			a	b	45.5		2838	2838					
Formaldehyde	Formaldehyde Sc	Y	50-00-0			b	b	460		2300	7340					
Formaldehyde	Formaldehyde Sc	N	50-00-0			c	b	55		30	110	785				
Hydrogen Chloride	Hydrogen Chlorid	N	7647-01-0			a	c			N	2		1			
Peroxyacetic Acid	Peroxyacetic Acid	Y	79-21-0			b	b	3050		7000	15000					
Formaldehyde	Waste Formalde	N	50-00-0			b	b	55		330	440	0	7			
Butane	Foaming Crystal	N	106-97-8			b	b	0.15		1470.6	2941.2					
Hydrogen	Hydrogen	N	1333-74-0			a	b	300		1200	2700					
Hydrogen, Liquid	Hydrogen, Liquid	N	1333-74-0			a	b	1500		1000	1500					
HYDROGEN	Hydrogen, Liquid	N	1333-74-0			a	b	1500		1500	1500					
Propane	Liquefied Petrole	N	74-98-6			a	b	4		124	2448	0				
Propane	Liquefied Petrole	N	74-98-6			a	b	2000		1000	2000					
Propane	Liquefied Petrole	N	74-98-6			a	b	1000		1800	2000	0				

Eighth Fire Code Hazard Class
Fire Code Hazard Classes describe to first responders the type and level of hazardous materials which a business handles. Refer to list on "Code Reference" page.



CAS Number
Chemical Abstract Service (CAS) number for the hazardous material. For mixtures, enter the CAS # of the mixture if it has been assigned a number distinct from its components.

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Filter and Coloring

Where's Wally?

ipedia.org/wiki/Where%27s_Wally%3F

	H	I	J	S	V	BA	BB	BC	BD	BE	BZ	CA	CB	CC	CD	CE
	Chemical Identification															
	207*	208	209	211	214*	217	218*	219	220	221*	224	225	226	227	228	229
	CommonNa	EH	CASNu	HI	PI	Avera	Maxin	A	S	U	S	S	I	HC1Nar	I	HC1C
	Electro Glo 300	N			b	110	110			a	a	a	100	Sulfuric Acic	N	7664-9
	C-22, Clear Chro	N		b	b	110	110			a	a	a	1	CHROMIUM	Y	10025-
	C-37, Clear Chro	N		b	b	110	110			a	a	a	1	CHROMIUM	Y	10025-
	Diphacinone	N	82-66-6	b	a	1000	2000	0		c	a	a	0	Diphacinone	N	82-66-
de	Cadmium Oxide	Y	1306-19-0	a	a	220	440			c	a	a	99	Cadmium Ox	Y	1306-19
de	Cadmium Oxide	N	1306-19-0	a	a	70	70	0		c	a	a	100	Cadmium Ox	N	1306-19
Sod	Cadmium Oxide/S	Y		b	b	86166	86166			c	a	a	3	Cadmium Ox	Y	1306-19
miu	Dull / LHE Cadmiu	Y		b	b	10990	21981			c	a	a	3	Cadmium Ox	Y	1306-19
nium	Titanium Cadmiur	Y		b	b	7118	7118			c	a	b	3	Cadmium Ox	Y	1306-19
m C	Bright Cadmium C	Y		b	b	2420	2420			c	a	a		Cadmium Ox	Y	1306-19
de/S	Cadmium Oxide/S	N		b	b	1250	1250			c	a	a	3	Cadmium Ox	Y	1306-19
Pla	Dull Cadmium Pla	Y		b	b	1210	1210			c	a	a		Cadmium Ox	Y	1306-19
m F	Bright Cadmium F	Y		b	b	1085	1085			c	a	a		Cadmium Ox	Y	1306-19
lmiu	Tank 82 - Cadmiu	N		b	b	992	992	0		a	a	b	4	cadmium Ox	N	1306-19
	mium Cyanide	N	542-83-6	b	b	501	501			a	a	a	1	Cadmium ox	N	1306-19
nt	mium solution	N		b	a	404	404			a	a	a	3	Cadmium oxide		1306-19
ach	k 52 - Cadmiu	N		b	b	225	225	0		a	a	b	4	Cadmium Ox	N	1306-19
nixture	k 54 - Dougla	N		b	b	225	225	0		a	a	b	3	Cadmium Ox	N	1306-19
	k 56 - Cadmiu	N		b	b	225	225	0		a	a	a	3	cadmium Ox	N	1306-19
uilding	k 79 - Dull Ca	N		b	b	225	225	0		a		b	4	Cadmium Ox	N	1306-19
a at any	ous Herbicide	N	Mixture	b	a	3188	4000	0		c	a	a		Fumioxazin	N	57-24-
se of	ous Pesticide	N	Mixture	b	a	2475	3500	0		c	a	a		Strychnine A	N	57-24-
	adium Pentox	Y	1314-62-1	b	a	1760	1760			c	a	a	1	Vanadium C	Y	1314-62
	431 Durite SC	Y	Mixture	b	f	b	20000	51360	0	c	a	c	25	Phenol	Y	108-95-
	AX-PS Axiom Ph	Y	Mixture	b	f	b	10500	12500		c	a	a	25	Phenol	Y	108-95-
	Phenolic Prepreg	N		b	a	4931.25	4931.25			c	a	c	8	PHENOL	N	108-95-
mpl	RX P-Listed Emp	Y	81-81-2	c	a	1	23	1	311	c	a	a		Warfarin	Y	81-81-2
	Antique Black M2	N	730050	b	b	55	55	55		a	a	a	5	Selenious A	N	7783-0

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March 24-27, 2025

déjà vu

For each CAS Column & color code this process is repeated

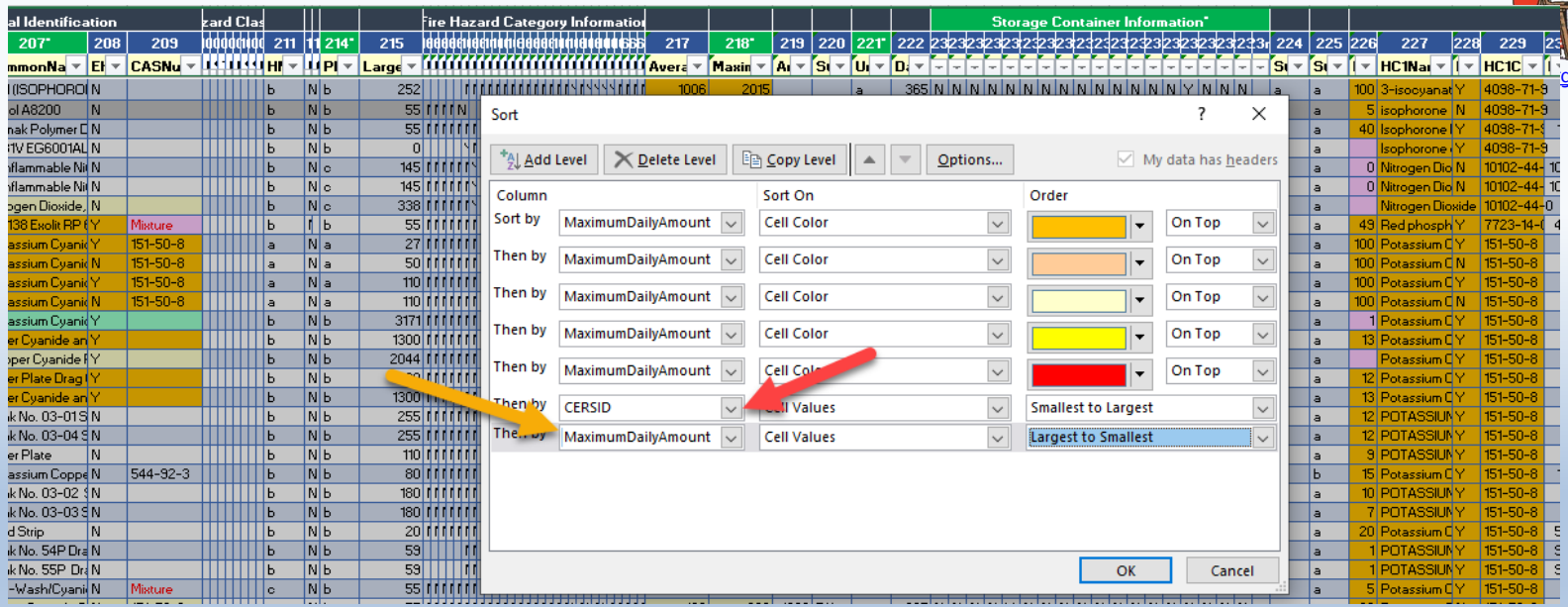
Continuus
Iterativus
Saepius

Adjust your highlighting to match the Maximum Daily Volume
Re-sort the list by Max Daily Volume Color

Filter and Coloring

Where's Wally?

g/wiki/Where%27s_Wally%3F



Filter and Coloring

CERS ID
8-digit or 9-digit Identifier used to uniquely identify this facility in CERS.

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

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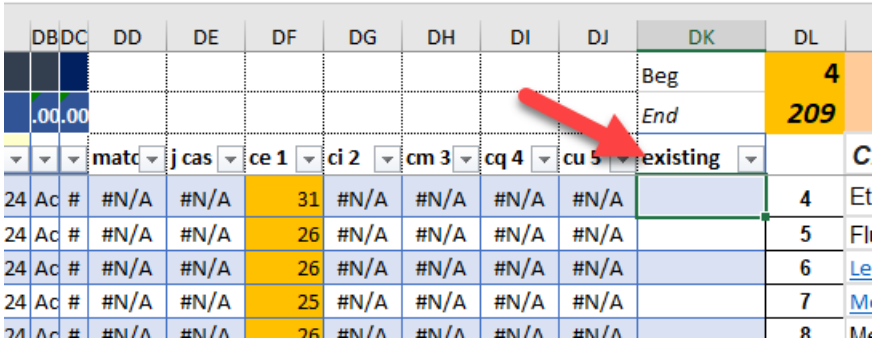
déjà vu all over again…

Using your agency's existing CalARP CERS ID inventory
Place into an open column

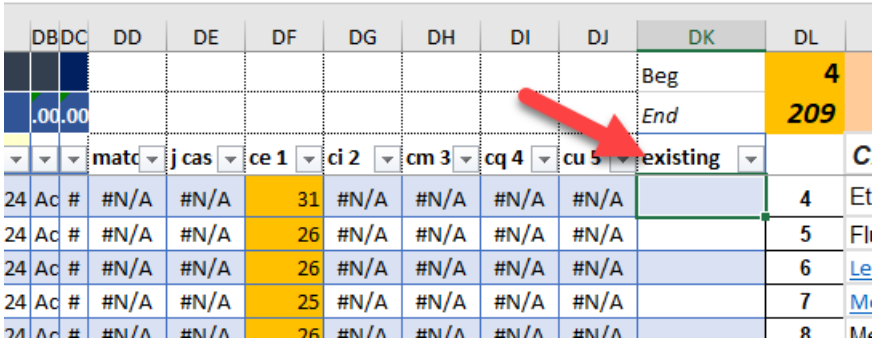


	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL
										Beg	4
	.00	.00								End	209
			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5	existing	
24	Ac	#	#N/A	#N/A	31	#N/A	#N/A	#N/A	#N/A		4
24	Ac	#	#N/A	#N/A	26	#N/A	#N/A	#N/A	#N/A		5
24	Ac	#	#N/A	#N/A	26	#N/A	#N/A	#N/A	#N/A		6
24	Ac	#	#N/A	#N/A	25	#N/A	#N/A	#N/A	#N/A		7

Match, in Column DD, the Agency's CalARP CERS ID with the CERS IDs in Column A

déjà vu all over again…

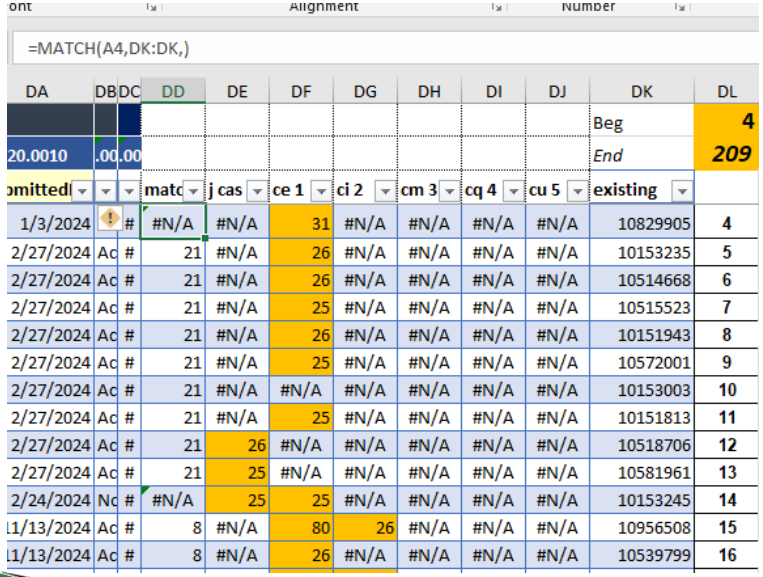
Enter your agency's existing CalARP CERS ID inventory
Into an open column DK



	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL
										Beg	4
	.00	.00								End	209
			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5	existing	
24	Ac	#	#N/A	#N/A	31	#N/A	#N/A	#N/A	#N/A		4
24	Ac	#	#N/A	#N/A	26	#N/A	#N/A	#N/A	#N/A		5
24	Ac	#	#N/A	#N/A	26	#N/A	#N/A	#N/A	#N/A		6
24	Ac	#	#N/A	#N/A	25	#N/A	#N/A	#N/A	#N/A		7

This never ends

Match the Agency's CalARP CERS ID with CERS ID (Column A)



ont Alignment Number

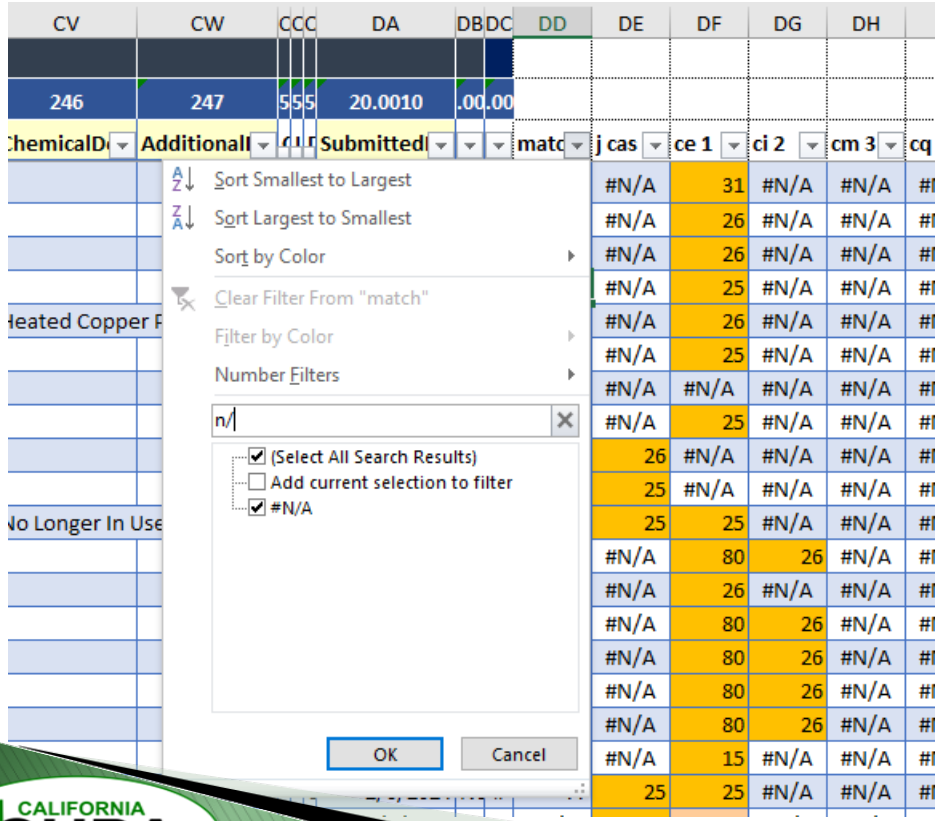
=MATCH(A4,DK:DK,)

DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL
										Beg	4
20.0010	.00	.00								End	209
omitted			matc	j cas	ce 1	ci 2	cm 3	cq 4	cu 5	existing	
1/3/2024		#	#N/A	#N/A	31	#N/A	#N/A	#N/A	#N/A	10829905	4
2/27/2024	Ac	#	21	#N/A	26	#N/A	#N/A	#N/A	#N/A	10153235	5
2/27/2024	Ac	#	21	#N/A	26	#N/A	#N/A	#N/A	#N/A	10514668	6
2/27/2024	Ac	#	21	#N/A	25	#N/A	#N/A	#N/A	#N/A	10515523	7
2/27/2024	Ac	#	21	#N/A	26	#N/A	#N/A	#N/A	#N/A	10151943	8
2/27/2024	Ac	#	21	#N/A	25	#N/A	#N/A	#N/A	#N/A	10572001	9
2/27/2024	Ac	#	21	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	10153003	10
2/27/2024	Ac	#	21	#N/A	25	#N/A	#N/A	#N/A	#N/A	10151813	11
2/27/2024	Ac	#	21	26	#N/A	#N/A	#N/A	#N/A	#N/A	10518706	12
2/27/2024	Ac	#	21	25	#N/A	#N/A	#N/A	#N/A	#N/A	10581961	13
2/24/2024	No	#	#N/A	25	25	#N/A	#N/A	#N/A	#N/A	10153245	14
1/13/2024	Ac	#	8	#N/A	80	26	#N/A	#N/A	#N/A	10956508	15
1/13/2024	Ac	#	8	#N/A	26	#N/A	#N/A	#N/A	#N/A	10539799	16

Column DD: #NA
Not in CalARP

Whereas a number
Existing CalARP site

Magic—I don't think it means what…



Filter Column DD #NA
Not in CalARP

Final List

Where's Wally?

https://en.wikipedia.org/wiki/Where%27s_Wally%3F

AGENDA

	G	H	I	J	S	T	U	V	W	BA	BB	BC	BD	BE	BZ	CA	CB	CC	CD	CE	CT	DC	DD		
	Chemical Identification																Hazardous Component Information								
	0	207*	208	209	211	11		214*	215	217	218*	219	220	221*	224	225	226	227	228	229	244	.00			
me	T	CommonName	EHS	CASNumb	HMT	F	C	Phy	LargestC	Average	Maximu	Ann	Stat	Unit	Stor	Stor	H	HC1Name	H	HC1CAS	H		matc	j c	
dro	N	SA0119 Ammoniur	N		b	N		b	330	330	1320	0		a	a	a	30	Ammonium h	N	1336-21-6		#	#N/A	#	
ide		Potassium Cyanide	Y	151-50-8	a	N		a	27	27	750	0		c	a	a	100	Potassium Cy	Y	151-50-8		#	#N/A		
drox	N	A135 - Aqua Ammc	N	1336-21-6	b	N		b	55	275	495			a	a	a	30	Ammonia	N	7664-41-7		#	#N/A		
EAR	N	CADMIUM STEARA	N	2223-93-0	a	N		a	50	300	600			c	a	a						#	#N/A		
droxi		Ammonium Hydro	N	1336-21-6	a	N		b	55	20	1500		122	a	a	a			N			#	#N/A		
ating -	N	Cadmium Plating -	Y	143-33-9	b	N		b	1672	1672	1672			c	a	a	4	Cadmium	N	7440-43-9	N	#	#N/A		
ide	N	Sodium Cyanide	Y	143-33-9	a	N		a	110	110	110		181	c	a	a	100	Sodium Cyan	Y	143-33-9		#	#N/A		
	N	810431 Durite SC 1(	Y	Mixture	b	N		b	55	20000	51360	0		c	a	c	25	Phenol	Y	108-95-2		#	#N/A		
	N	AX-PS Axiom Phen	Y	Mixture	b	N		b	55	10500	12500			c	a	a	25	Phenol	Y	108-95-2		#	#N/A		
t RP 65	N	810138 Exolit RP 65	Y	Mixture	b	N		b	55	500	2064			c	a	a	49	Red phospho	Y	7723-14-0		#	#N/A		
Acryli	N	Aqueous coating	N		b	N		b	55	600	1375	220	135	a	a	a	51	Ammoniom h	N	1336-21-6		#	#N/A	#	

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Almost Finally

The final list must then be sorted to group all the RS by CERS

You may also wish to "risk rank" or Pick the least controversial

Hint—don't pick flammables (see safer communities act…)

Let's let someone else talk

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	A	AG	AH
1	Total Amount	Found on Site	TQ	Busi	Facil	CERSID	C	C	N	C	ChemicalName	Trac	CommonName	EHS	CASNumber	P	S	T	F	F	S	S	E	HMTy	R	C	Physi	LargestCon	AverageDa	Maximum	AnnualV	S	Units	Day
2	465 lbs	605 gallons (10 percent concentration, so it is less than 20 percent, not applicable in table 1.) = 605 gallon x 7.75 lbs/gal = 4650 lbs x 10 percent = 465 lbs. so this should be ok?	500	5 Mi	5 Mi	10176367	C	N			Ammonium Hydroxid	N	Aqua Ammonia	N	1336-21-6									b	N	b	400	302	605		a	##	
3	4,650 lbs	6k gal = ~ (6000 gal x 7.75 lbs/gal) = 46,500 lbs x 10 percent = 4,650 lbs	500	Thur	Thur	10176915	Pr	Fig			Ammonium Hydroxid	N	Aqua Ammonia	N	1336-21-6									b	N	b	6,000	5,000	6,000		a	##	
4	1,019 lbs	440 gals x 7.75 lbs/gal = 3,410 lbs x 29.9 percent = 1,019 lbs	500	Pres	Pres	10177703		Cano			Ammonia Solution F.C	N	Aqua ammonia	N	1336-21-6									b	N	b	55	110	440		a	##	
5	3486 lbs	~ 3486 lbs (600 x 8.3 x .7)	500	Aem	Aem	10178023	V	N			Ammonium Hydroxid	N	Ammonium Hydro	N	1336-21-6									a	N	b	300	450	600	0	1	a	##
6	900 lbs	900 lbs > 500	500	Del	Del	10178949	E	N	C-		Anhydrous Ammonia	N	Ammonia	Y	7664-41-7									a	N	c	150	450	900		1	c	##
7		Inventory entered twice?	500	Del	Del	10178949	E	N	C-		Anhydrous Ammonia	N	Ammonia	Y	7664-41-7									a	N	c	150	450	900		1	c	##
8	900 lbs	900 lbs > 500	500	Paci	Paci	10765936	R	N			Anhydrous Ammonia	N	Ammonia	Y	7664-41-7									a	N	c	300	600	900		1	c	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	A	AG	AH
1	Total Amount	Notes	TQ	Busi	Faci	CERSID	C	C	N	C	ChemicalName	Trac	CommonName	EHS	CASNumber	P	S	T	F	F	S	S	E	HMTy	R	C	Physi	LargestCon	AverageDa	Maximum	AnnualV	S	Units	Da
14	11,780 lbs	<100 microns)	10/10,000	Vall	St						henadione	N	Kaput-D	Y	82-66-6									a	N	a	0	2,440	4,880			c	##
15	600 lbs	600 lbs > 500 lbs (if in powder form <100 micron)	500/10,000	Wes	W						thomyl	N	Lannate 90sp	Y	16752-77-5									b	N	a	10	600	600			c	##
16	600 lbs	600 lbs > 500 lbs (if in powder form <100 micron)	500/10,000	Wes	W						ganophosphate Ins	N	Dimethoate 4EC / 4	Y	60-51-5									b	N	b	3	250	600			c	##
17	924 Lbs	924 Lbs > 500 lbs	500	Salic	Sa						minum Phosphide	N	Weevil-Cide Table	Y	20859-73-8									b	N	a	3	250	924			c	##
18	14,612 lbs	~ 14,612 lbs (345,000 cub ft / 23.61 cu ft/lbs)	10,000	City	City	10178361	#	N			Methane		Compressed Natur	N	74-82-8									a	N	c	245,000	345,000	345,000			b	##
19	2,880 lbs	2,880 lbs > 100	100	Ranc	Ran	10178827	C	N			Chlorine		Chlorine	Y	7782-50-5									b	N	b	2,880	100	2,880			c	##
20	355,000 lbs	355,000 lbs (100,000 gal x 3.55 lbs/gal)	10,000	Star	Star	10178885		South			Methane	N	Natural Gas	N	74-82-8									b	N	c		50,000	100,000			a	
21	750 lbs	750 lbs > 500	500	Del	Del	10178949	C	N	C-		Peroxyacetic Acid	N	Perasan A	Y	79-21-0									a	N	b	330	232	750			c	##
		Inventory entered twice	500	Del	Del	10178949	C	N	C-		Peroxyacetic Acid	N	Perasan A	Y	79-21-0									a	N	b							
		21,000 lbs > 10,000	10,000	Lind	Moc	10178955		South			ACETLYENE		ACETLYENE	Y	74-86-2									a									
			100	Tige	Tige	10178965		North			Hydrofluoric Acid		Hydrofluoric Acid	Y	7664-39-3									a									
			500	Hyd	Hyd	10179179	C	N			Peroxyacetic Acid		Peroxyacetic Acid	Y	79-21-0									b									
			500	The	Geo	10179643	E	N			Formaldehyde	N	Formaldehyde	N	50-00-0									a									

Facility/Site Name
The name of the facility/site. For businesses reporting on only one facility, the business and facility name are typically the same.

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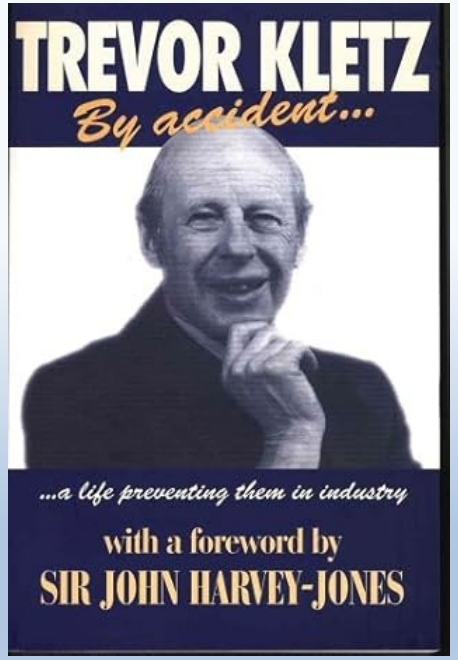
It's Marco

Alvin Lal	alal@envres.org
Marco Escobedo	mescobedo@ocha.com
Alvin Dong	alvin.dong@lacity.org
Minh Le	minh.u.le@lacity.org

Resource

AGENDA

"What you don't have, can't leak…"



"Organisations have no memory…"

"Try to change situations, not people…"

CERS *is* your friend

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