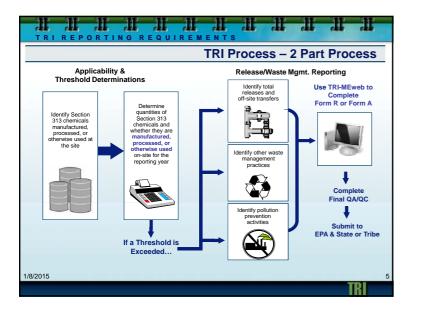


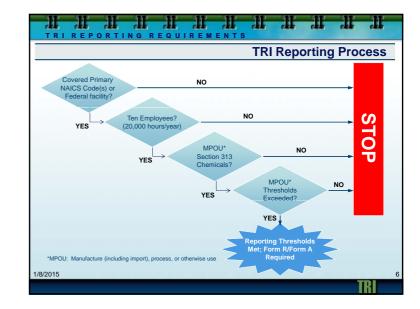


What is EPCRA Section 313 & TR
 Section 313 of EPCRA requires facilities to file a TRI report annually for <u>each Section 313 chemical</u> exceeding an activity threshold (manufacturing, processing or otherwise using) Section 313 chemical list contains over 600 chemicals and chemical categories
 Facilities exceeding an activity threshold must report if they are: In a "covered sector" (defined by NAICS codes); and Have 10 or more employees
Submit TRI reports to U.S. EPA, and either designated state officials, or
designated tribal office
by July 1st following the calendar year's activities (aka Reporting Year (RY))
[e.g. July 1, 2015 deadline for RY 2014 (January 1 - December 31, 2014) activities]

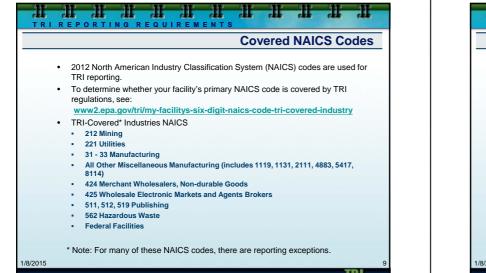
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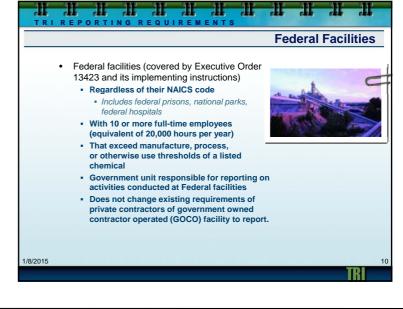


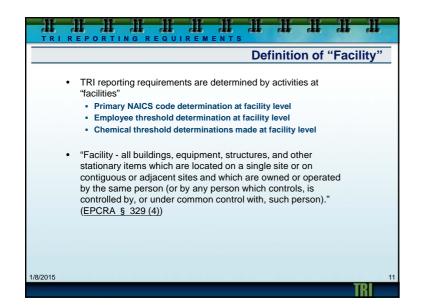


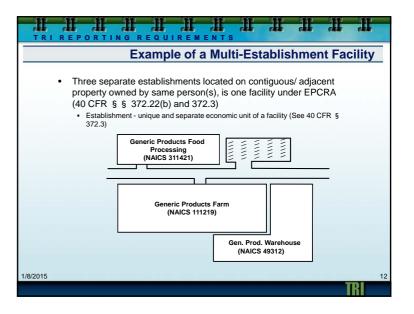


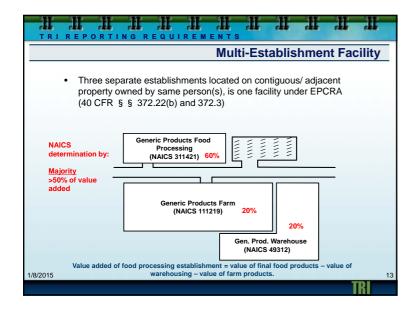
	Industrial Sectors Covere
Industrial Sector	Notes
Manufacturing	Facilities engaged in the mechanical or chemical transformation of materials or substances into new products
Metal mining	Not including metal mining services, and uranium, radium, and vanadium ores
Coal mining	Not including coal mining services
Electrical utilities	Limited to facilities that combust coal and/or oil for the purpose of generating electricity for distribution in commerce
Treatment, Storage, and Disposal facilities	Limited to facilities regulated under the Resource Conservation and Recovery Act, Subtitle C, 42 U.S.C. Section 6921 et seq.
Solvent recovery services	Limited to facilities primarily engaged in solvent recovery services on a contract or fee basis
Chemical distributors	Facilities engaged in the wholesale distribution of chemicals and allied products
Petroleum bulk terminals	Facilities engaged in the wholesale distribution of crude petroleum and petroleum products from bulk liquid storage facilities

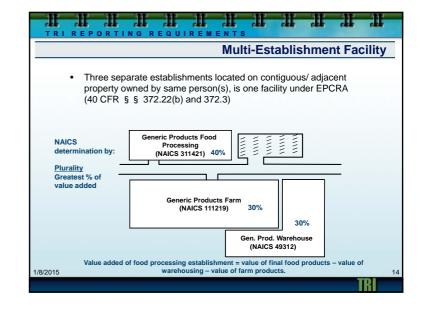


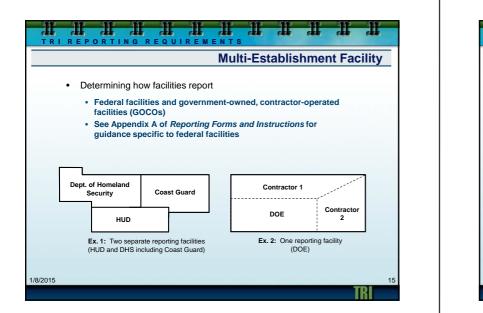




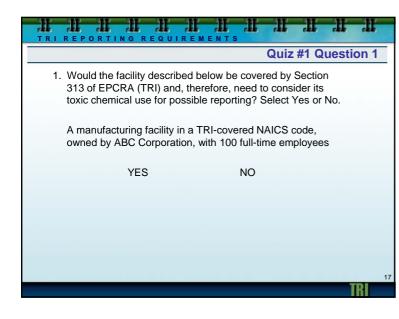


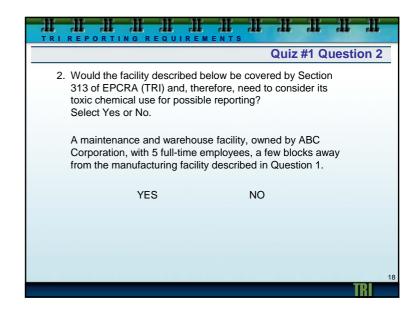


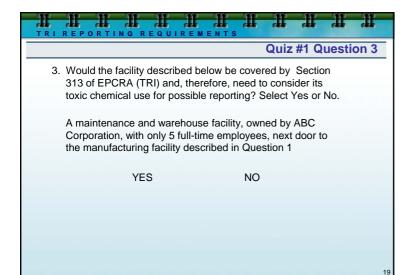




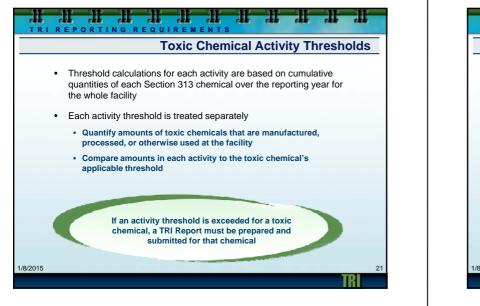
	Employee Threshold
·	 10 or more full-time employee equivalents (i.e., 20,000 hours) (40 CFR § § 372.3 and 372.22(a)) Worked for the facility Includes operational staff, administrative staff, contractors, dedicated sales staff, company drivers, off-site direct corporate support Does <u>NOT</u> include contract drivers or contractors performing intermittent service functions such as janitorial services (1998 Q&A #21, #29 and #38) Add <u>all</u> hours from part-time <u>and</u> full-time employees
•	Determinations based on available time management systems/data
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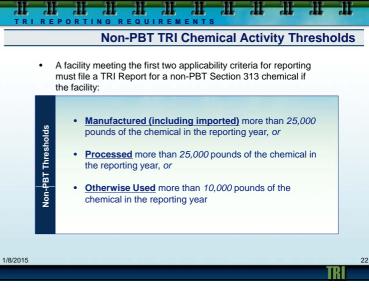


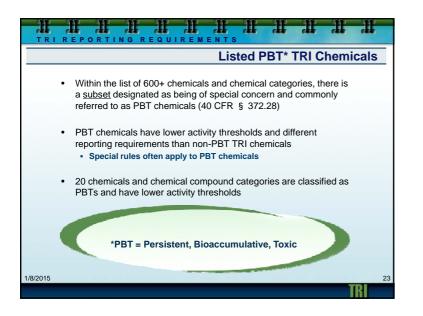


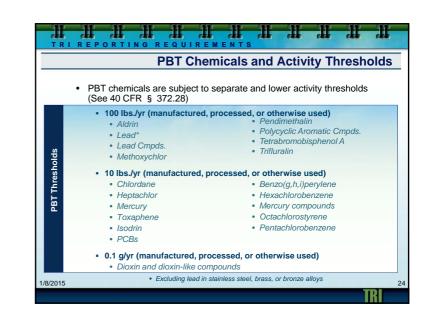


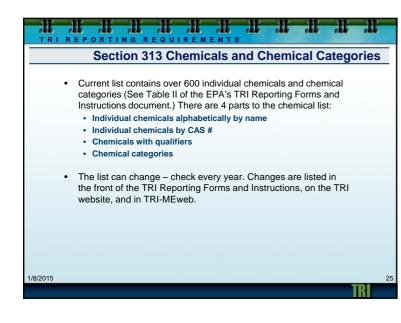












TRIREPORTING REQUIREMENTS

Chemical List Changes

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- A rule was published on September 30, 2014, adding a nonylphenol category to the TRI list of reportable chemicals.
 Facilities that manufacture, process or otherwise use nonylphenol should begin gathering data for threshold determination and potential waste management reporting. Reporting for this chemical category is required on Reporting Year 2015 forms that are due to the Agency on July 1, 2016.
- A rule was published on November 7th, 2013 (78 FR 216) adding onitrotoluene to the TRI chemical list. Reporting for this chemical will begin in Reporting Year 2014 for forms due to the Agency on July 1, 2015. For more information visit: <u>http://www2.epa.gov/toxics-</u> release-inventory-tri-program/addition-ortho-nitrotoluene-final-rule
- On October 17, 2011, the 1994 administrative stay of the TRI reporting requirements for hydrogen sulfide (H2S) was lifted. H2S reporting requirements first became effective on October 17, 2011 for reporting year 2012.

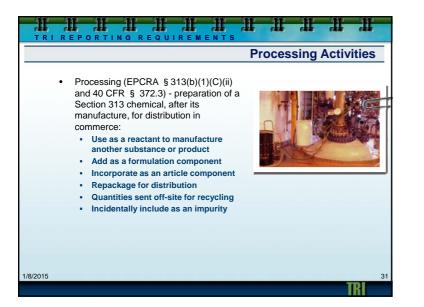
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Se	ection 313 Cher	nicals With Quali	fiers
eporting only if manufa form (40 CFR § 372.25	icals with parenthetic qu ctured, processed, or ot (g)). Below are <u>some</u> ex prms and Instructions do	herwise used in specified amples (see Table II of	
Chemical	CAS #	Qualifier	
Aluminum	7429-90-5	Fume or dust	
Aluminum Oxide	1344-28-1	Fibrous forms	
Asbestos	1332-21-4	Friable forms	
Isopropyl alcohol	67-63-0	Only manufacturers using strong acid process	
Phosphorus (not phosphate)	7723-14-0	Yellow or white	
Phosphorus (not phosphate) Saccharin	7723-14-0 81-07-2	Yellow or white Manufacture only	
,			
Saccharin	81-07-2	Manufacture only	

	TRI Chemical Categories
Metal compound chemical cate	gories
 Antimony Compounds Arsenic Compounds Barium Compounds * Beryllium Compounds Cadmium Compounds Chromium Compounds ** Cobalt Compounds Copper Compounds *** 	 Lead Compounds Manganese Compounds Mercury Compounds Nickel Compounds Selenium Compounds Silver Compounds Thallium Compounds Vanadium Compounds Zinc Compounds
the element or compound as part of * Does not include Barium Sulfate 0	CAS 7727-43-7 d ore component of processing residue yanine compounds that are substituted

TRI REPORTING REQ	UIREMENTS
EPCRA 1	RI Chemical Categories (examples)
Chiorophenols	OH CIX H(5-X); X = 1 to 5
Cyanide Compounds	XCN where X=H or any other group where a formal dissociation may occur. For example, KCN or Ca(CN)_2
Diisocyanates	20 individual compounds cited in Category
Dioxin and Dioxin-Like Compounds:	17 individual compounds cited in Category
Ethylenebisdithiocarbamic acid, salts and esters (EBDCs)	Includes a substance that may contain EBDC or EBDC salt or ester as part of its infrastructure
Certain Glycol Ethers	Complex definition
Nicotine and salts	Includes a substance that may contain it or salt as part of its infrastructure
Nitrate compounds	Water dissociable, reportable only when in aqueous solution
Polybrominated Biphenyls (PBBs)	BrX H(10-X) : X = 1 to 10
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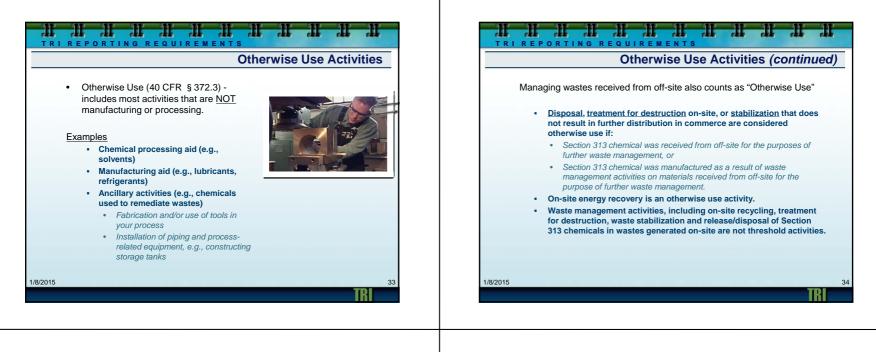




11 di la di la di la TRI REPORTING REQUIREMENTS Repackaging as a Processing Activity Repackaging a Section 313 chemical for • distribution in commerce is considered processing Repackaging includes: From container to tanker

- truck and vice versa
- Between similar size containers
- Via pipeline to/from a tank
- Repackaging does not include:
 - Sampling without repackaging
 - Re-labeling
- Repackaging without distribution into commerce ٠ is not processing
- · Transfer to a storage tank for mere storage is not processing





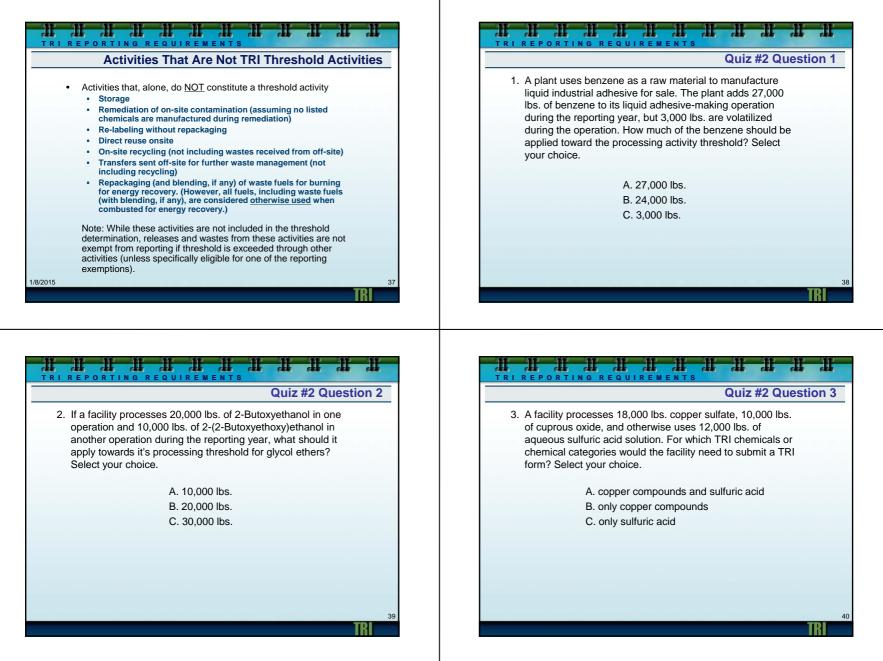
Calculating Activity Thresholds

- The threshold quantity is the total amount manufactured, processed, or otherwise used, NOT the amount released.
- Calculate the total amount of Section 313 chemical used for a specific threshold activity
- For threshold determinations, Section 313 chemicals recycled from spent or contaminated materials or Section 313 chemicals directly reused:
 - Count original amount used only once
 - If the materials remain in use from previous years, count only the quantity added during current reporting year
- Calculations for reporting waste management may be different from threshold quantities.

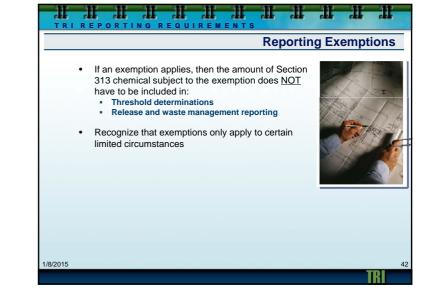
TRI REPORTING REQUIREMENTS

Threshold Determination for Compound Categories

- Count together all compounds within the same chemical category for each activity, even if different compounds within a category are used in separate operations
- Consider the entire weight of all the different chemical compounds in the same chemical category when determining thresholds
- Note: calculations for release and other waste management estimates of metal compounds based on the parent metal weight only; and for nitrate compounds are based on weight of nitrate ion only







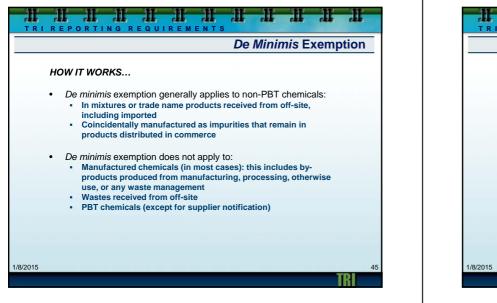


- The quantity of a non-PBT Section 313 chemical in a mixture or other trade name product is eligible for the *de minimis* exemption (40 CFR § 372.38(a)) if the chemical is:
 - An OSHA-defined carcinogen present at a concentration of less than 0.1% (See 29 CFR § 1910.1200(d)(4))

OR

- Any other non-PBT TRI chemical present at a concentration of less than 1%
- The TRI de minimis level appears next to each chemical on the chemical list in Table II of the TRI Reporting Forms and Instructions (1.0, 0.1 or * for PBT chemicals where de minimis is not allowed (See 40 CFR § 372.38(a)))

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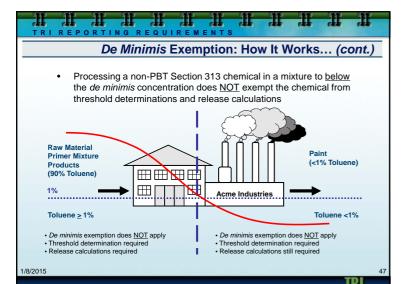


TRIREPORTING REQUIREMENTS

PBT Chemicals and the De Minimis Exemption

- The de minimis exemption cannot be applied to PBT chemicals.
- All other EPCRA section 313 exemptions can apply to PBT chemicals.
- For supplier notification requirements, suppliers of mixtures containing PBT chemicals at *de minimis* concentrations do not need to supply notification
 - Facilities that receive a mixture and know that PBT chemicals are present must consider each PBT chemical in threshold and release calculations regardless of whether or not supplier notification was provided





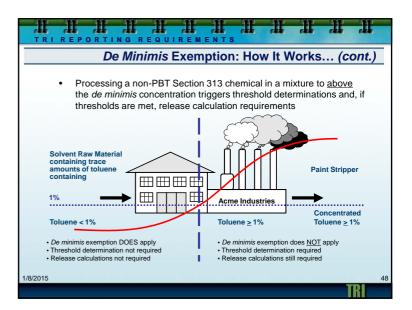


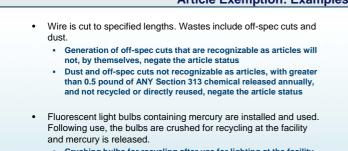


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- Releases of a Section 313 chemical from an article may negate the exemption. To maintain the article status, total releases from <u>all like</u> <u>items</u> must be:
 - In a form having a specific shape or design; or
 - Recycled, directly reused; or
 - 0.5 pound or less released per year (may be rounded down to zero)
- If more than 0.5 pound per year of a Section 313 chemical is released from all like items in a form not having a specific shape or design and is not recycled or directly reused, none of the items meet the articles exemption
- End use must be dependent upon the item's initial shape or design (For example, sheet metal must maintain its initial thickness, and wire and pipe must maintain their initial diameter.)
- See TRI Reporting Forms and Instructions for more on the article
 exemption

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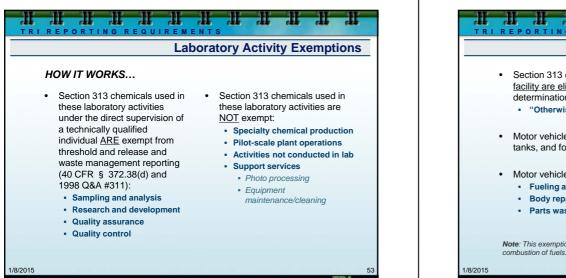


TRI REPORTING REQUIREMENTS

 Crushing bulbs for recycling after use for lighting at the facility is not considered release under normal conditions of processing or use at this facility; the article exemption may apply.

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Article Exemption



REPORTING REQUIREMENT

Motor Vehicle Maintenance Exemption

- Section 313 chemicals used to maintain vehicles operated by the facility are eligible for the exemption from threshold determinations (40 CFR § 372.38(c)(4))
 - "Otherwise use" exemption
- Motor vehicles include cars, trucks, tanks, and forklifts



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- Motor vehicle maintenance includes:
 - Fueling and adding other fluids (e.g., ethylene glycol)
 - Body repairs
 - Parts washing

Note: This exemption does NOT apply to "manufacture" of Section 313 chemicals from combustion of fuels.

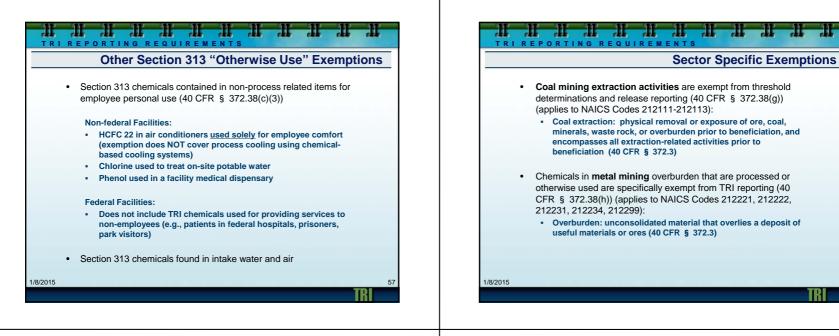
di la TRI REPORTING REQUIREMENTS **Routine Janitorial or Facility Grounds Maintenance Exemption**

- Section 313 chemicals contained in products used for non-process related routine janitorial or facility grounds maintenance ARE eligible for exemption (40 CFR § 372.38(c)(2)):
 - Phenol in bathroom disinfectants
 - Pesticides or fertilizers used on lawns
 - "Otherwise use" exemption
- Section 313 chemicals used in the following activities are NOT exempt
 - Facility equipment maintenance
 - Cleaning or maintenance activities that are directly associated with or integral to the production process at the facility

Note: Chemicals otherwise used in janitorial or grounds maintenance activities may not be exempt if part of your facility's "process" is to provide these services (e.g., federal hospitals, prisons, parks). Also, chemicals manufactured during routine janitorial or facility ground maintenance are not exempt

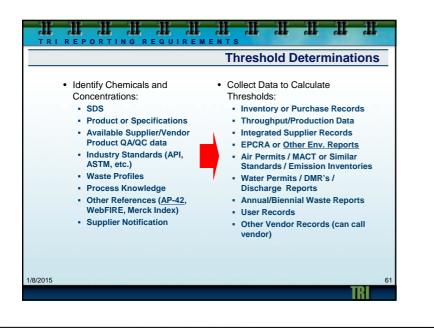
TRI REPORTING REQUIREMENTS **Structural Component Exemption**

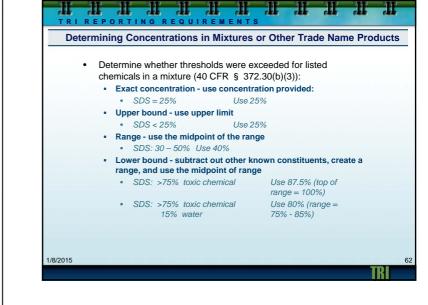
- Section 313 chemicals used as structural components are eligible for exemption (See 40 CFR § 372.38(c)(1)). Building components that are process-related are not "structural components" as contemplated by the exemption.
- Non-process-related building components that are "structural components" and therefore eligible for the exemption include:
 - · Potable water pipes and other non-process-related pipes and structures
- Processed-related building components that are NOT "structural components" and therefore NOT eligible for the exemption include:
 - Refractory brick, boiler tubes, process-related pipes, anodes used in electroplating, grinding wheels, & metal working tools
 - Structural components that are integral to a non-industrial facility's "process" (e.g., federal prisons, hospitals, parks)

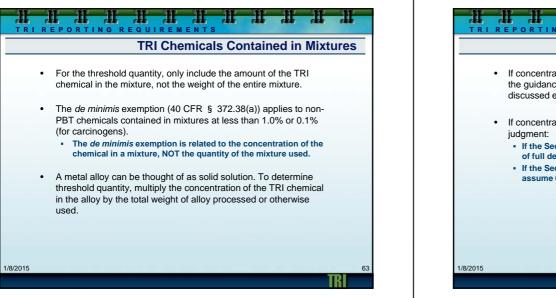


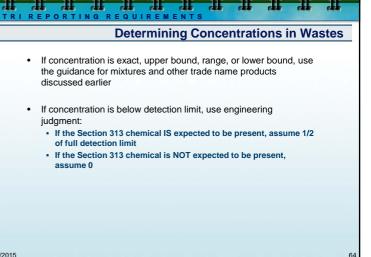


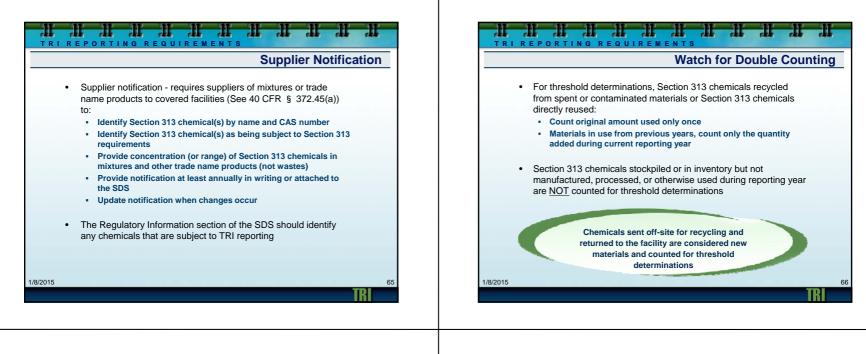
TRI	R	EPORTING REQUIREMENTS
		Chemical Information Management
	•	Consider all activities and sources
	•	 Tracking toxic chemicals entering facility Purchasing/Inventory Contractors Capital purchases (e.g., chillers, process equipment) Direct purchases (credit card or other emergency purchases) Direct and indirect materials Manufacturing byproducts/intermediates generated
	•	Need cooperation and support from all functional groups
	•	Be comprehensive!

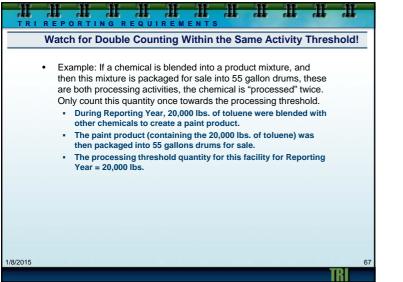












TRI REPORTING REQUIREMENTS Multi-Establishment Facility

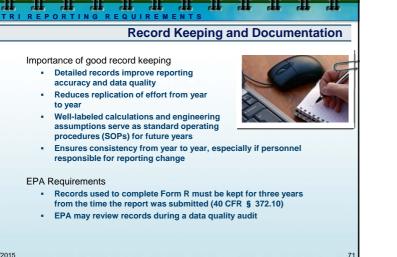
- Reporting as multi-establishment facility (40 CFR § 372.30(c))
 - Apply threshold determinations on aggregate amount of chemicals used at <u>facility</u>
 - Able to file separate Form R reports for each part of the facility (e.g., establishment or grouping of establishments) and the Form Rs must be designated as "part of a facility" in Part I, Section 4.2
 - Report all non-exempt releases and other waste management activities of reportable Section 313 chemicals for all parts of a facility
 - Avoid double-counting at the facility of chemicals involved in intra-facility transfers

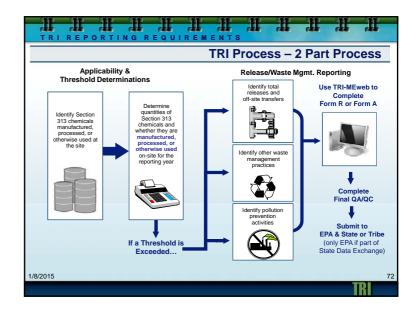
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6	6.7.		Subtotal: (A1)lbs. (B1)lbs. (C1)_1,500lbs.	Subtotal: (A1)lbs. (B1)lbs. (C1)_1,500lbs.
Subtotal: (A1)lbs. (B1)lbs. (C1)_1,500		Subtotal: (A1)lbs. (B1)lbs. (C1)_1,500lbs.		
Step 3. Calculate the amount subject to threshold: (A · A ₁)lbs. (B · B ₁) lbs. (C · C ₁) 9,000	Subtotal: (A ₁)lbs. (B ₁)lbs. (C ₁)_1,500lbz.		Step 3. Calculate the smannt subject to threshold: $(A : A_{-})$ Bis $(R : R)$ Bis $(C : C) = 0.000$ Bis	Step 3. Calculate the amount subject to threshold: (A - A ₁) lbs. (B - B ₁) lbs. (C - C ₁) 9,000 lbs.
		Step 3. Calculate the amount subject to threshold: (A · A ₁)lbs. (B · B ₁)lbs. (C · C ₁)9,000_lbs.		

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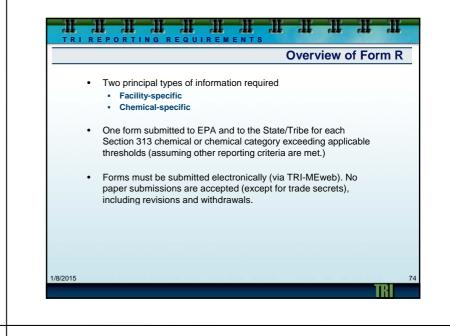
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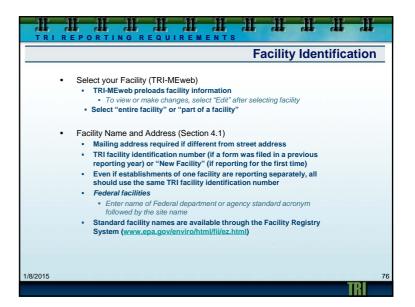


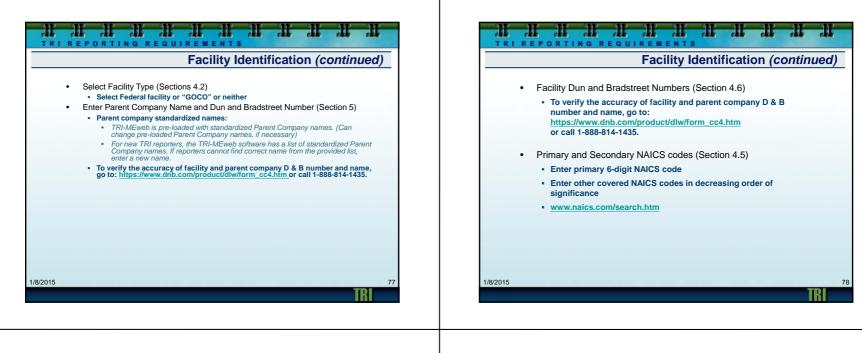


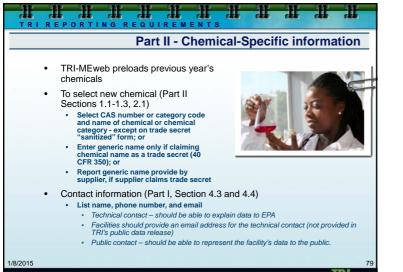




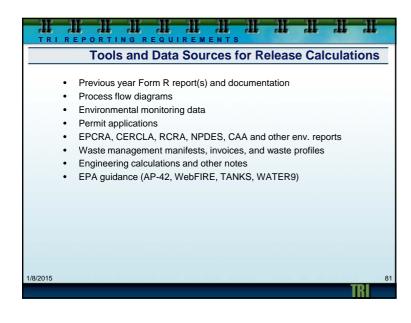
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	Form R	Content
Part I		
Section 1:	Reporting Year	
Section 2:	Trade Secret Information	
Section 3:	Certification	
Section 4:	Facility Identification	
Section 5:	Parent Company Info	
Part II		
Section 1:	Toxic Chemical ID	
Section 2:	Mixture Component ID	
Section 3:	Activities & Uses	
Section 4:	Max Amt on site for CY	
Section 5:	On-site Releases	
Section 6:	Off-site Transfers	
Section 7:	On-site Waste Treatment, Energy Recovery, Recycling Processes	
Section 8:	Source Reduction and Waste Management Activities	
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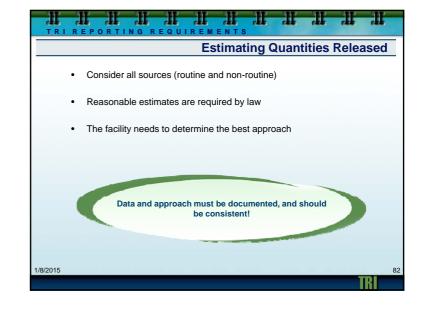


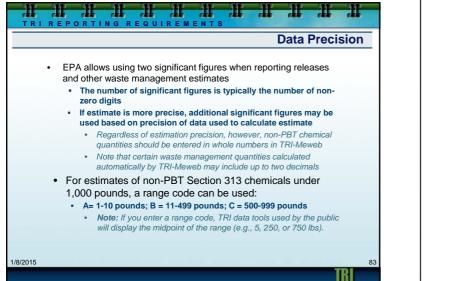




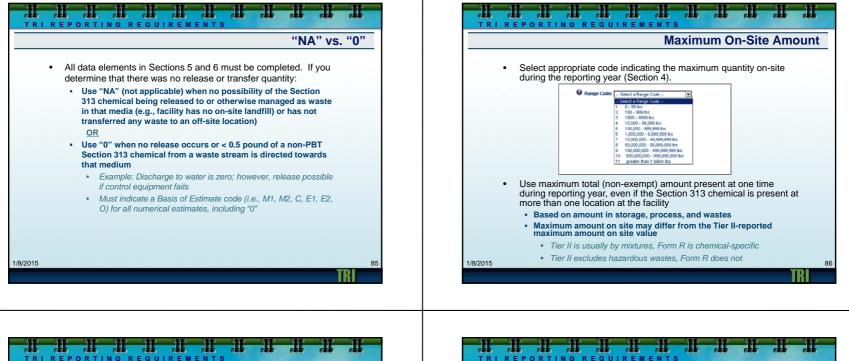
	Activities and Use
• ;	Specify use(s) of the Section 313 chemical (Section 3)
((e.g., manufacture, process, or otherwise use)
	 Report only activities taking place at reporting facility
	Check all applicable boxes
3	.1 Manufacture
5	a Yes 🕐 No 3.1 Did your facility <u>manufacture</u> 1,1-Denethyl hydrazine in Reporting Year 2012?
	Vec No a. Was 1.1.0methyl hydration groups and the start a
1	Yes a No b. Was 1,1-Demethyl hydrazine imported by your facility?
	Yes c. Was 1,1 Dimethyl hydrazine produced or imported for <u>on-site use or processing</u> ?
	[2] Yes d. Was 1,1 Directly/ hydrazine produced or imported for <u>sale or distribution</u> ?
	Yes e. Was 1,1 Direthyl hydrazine produced or imported as a <u>hyproduc</u> [7
	Yes f. Was 1,1-Denethyl hydrazine produced or imported as an impurity?
э	2 Process
	Yes 🙊 No 3.2 Did your facility process 1.1 Dimethyl hydrazine in Reporting Year 2012?
з	3 Otherwise Use
6	🙊 Yes 🍵 No 🔰 3.3 Did your facility <u>otherwise use</u> 1,1-Dimethyl hydrazine in Reporting Year 2012?
	Yes a. Was 1,1-Dimethyl hydrazine otherwise used as a <u>chemical processing and</u> ?
	Yes b. Was 1,1-Denethyl hydrazine otherwise used as a manufacturing.eld?
	Ves c. Was 1,1-Dimethyl hydrazine otherwise used as ancillary or for another use?







	Data Precision (continued
•	For PBT chemicals, report releases and other waste management quantities at a level of precision supported by the data and estimation techniques used
•	 For PBT chemicals, 0.1 pound (100 micrograms for dioxins) is the smallest amount required to be reported Estimates < 0.05 pounds (< 50 micrograms for dioxins) can be rounded down to zero pounds
•	TRI-MEweb will allow for decimal reporting for PBT chemicals (e.g., 9.3 pounds)



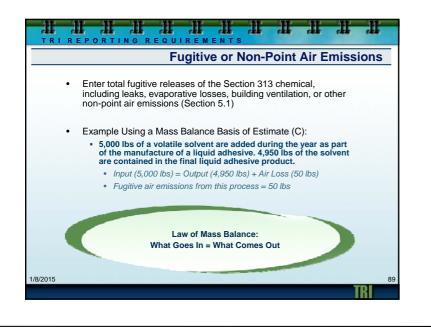
Quantity Entering Each Medium

 Report total releases of the Section 313 chemical to each environmental medium on-site - air, water, land (Section 5).

- Enter Total Release, report total quantity
 - Range codes can be used in Sections 5 and 6 for non-PBT Section 313 chemical guantities less than 1,000 pounds*
 - A = 1 10 pounds
 - B = 11 499 pounds
 - C = 500 999 pounds

* Note that similar quantities reported in Section 8 of Form R must be actual values and not ranges. The Section 8 Calculator in TRI-MEweb will assume the midpoint of any ranges reported in Sections 5 and 6 when calculating quantities for Section 8. If you do not wish to use the midpoint of the range in Section 8 calculations, it is best to enter a value rather than a range in Section 5. TRI REPORTING REQUIREMENTS Basis of Estimate Codes One of the following "Basis of Estimate" codes must be listed on the Form R for each release and waste management quantity reported: Continuous monitoring (M1) Periodic or random monitoring (M2) Mass balance calculation (C) Published emissions factors (E1) Site-specific emissions factors (E2) Engineering calculations (O) Everything NOT M1, M2, C, E1 or E2 above, such as: Best engineering judgment Estimated removal efficiencies Non-chemical-specific and non-published emission factors Use the code on the Form R for the method used to estimate the largest portion of the release

1/8/2015



TRIREPORTING REQUIREMENTS

Estimating Releases When No Data Available (Fugitive)

 Example: Metal dust observed on floor near or within metalworking operation indicates fugitive air emission occurring and possible transfer off-site; no additional data are available:



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 Work with operations personnel familiar with the operation
 Use best engineering judgment to

1/8/2015



Enter total releases to air from point sources, including stacks, vents, pipes, ducts, storage tanks, or other confined air streams (Section 5.2)
 Data sources/tools

 Air permit applications
 CAA Title V air inventories
 Process and production data

.....

Published emission factors

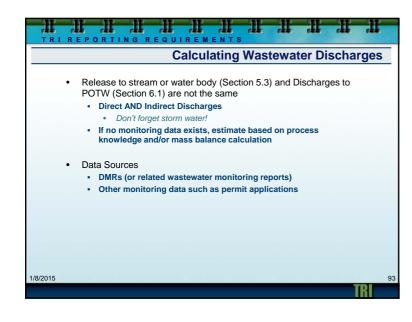
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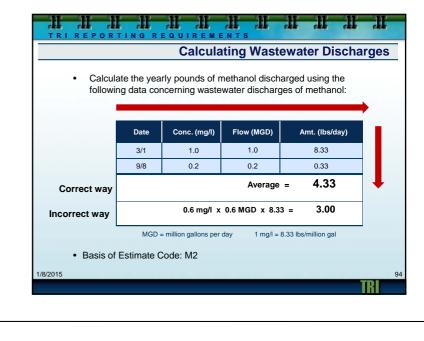
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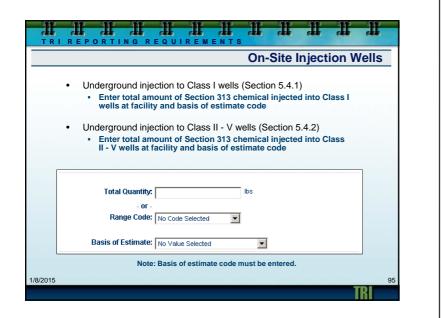
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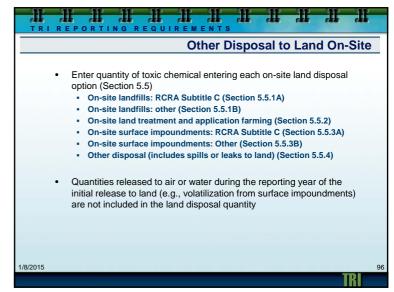
- Facility-specific monitoring data and emissions factors
- Example using an Emission Factor basis of estimate (E1):
- 500,000 tons of coal are combusted in a fluidized bed combustor
- EPA emission factor: 0.11 lb mercury emitted / 1,000,000 lb coal combusted
- 500,000 tons x 2,000 pounds / ton x (0.11 lb mercury / 1,000,000 lb coal) = 110 lbs. mercury
- 110 pounds of mercury are released through the stack
- Note: A portion of mercury may be present in resulting ash and would need to be reported as such

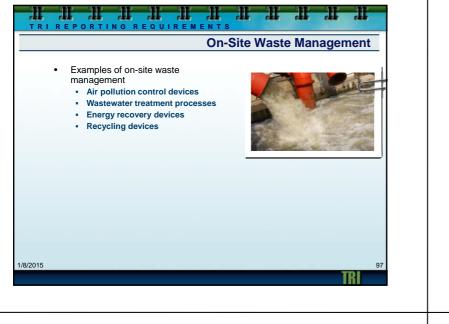
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			t of releases amounts fror				le
	licate the po ntributed by		ge of the tota vater	l quantity (t	oy weight)		
Stream or Water Body Name	Reach Code (optional)	Quantity lbs	Range Code	Basis of Estimate Code	% from Stormwater		
Mississippi River	07110004000001	54		M2 - Monitoring, Periodic/Random	100%	🗾 Edit	X Delete
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						Т	R









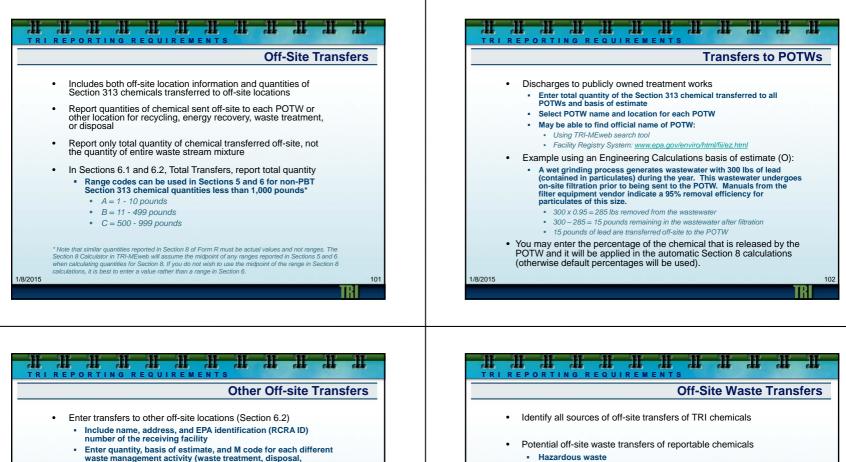


 Report each waste treatment method that each waste stream containing the Section 313 chemical undergoes (Section 7A). Include even if method has no effect on the chemical Report the efficiency of the waste treatment methods at eliminating the Section 313 chemical from the waste stream Includes destruction or physical removal Includes destruction or equal to 99 systemed at the systemed systemed a			V	laste Treatment Methods and Ef	ricien
eliminating the Section 313 chemical from the waste stream . Includes destruction or physical removal	•	contair	ning the S	Section 313 chemical undergoes (Section 7A)	
 Includes destruction or physical removal Waste a General b. Waste Treatment Waste Treatment Efficiency Fredie Waste Stream Method(s) Code Sequence Code Sequence Control Code Sequence Code Sequence Code Sequence Con		 Rej elir 	port the e	fficiency of the waste treatment methods at the Section 313 chemical from the waste stream	
Treatment Name Waste Sequence Treatment sequence C. Waste Treatment Efficiency Chemical L-Liquid H075 Select a Range Image: Context and the second sequence Image: Context and sequence					
avsdation vested Vested to Range Vested to Range B1 - Orecet than 99 999%, E3 - Orecet than 99 999%, E3 - Orecet than 99 999%, Select from the list and click Add Selectet E3 - Orecet than 99 99%, E3 - Orecet than 99 99%, E3 - Orecet than 99 99%, E3 - Orecet than 99 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 - Orecet than 99%, E3 -	Treatment Profile	Waste Stream	Treatment Method(s)	c. Waste Treatment Efficiency	
Select from the list and click Add Selected <pre> F4 - Orecter than 95%, but less than or equal to 95%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less than or equal to 55%, E5 - Equal to or greater than 05%, but less t</pre>		waste streams	H075	Select a Range E1 - Greater than 99.9999%	
	Select from the	e list and click A	Add Selected:	E4 - Greater than 95%, but less than or equal to 99% E5 - Greater than 50%, but less than or equal to 95%	
n n n n n n n n n n n	•	Enter o	quantity t	reated on-site (destruction only) in Section 8.6	
H H H H H H H H H H H	2015				TE
THE ALE ALE ALE ALE ALE ALE ALE ALE ALE AL					
H H H H H H H H H H H					
TRI REPORTING REQUIREMENTS					
		E P O R		H H H H H H	II .
Recycling Methods and Qua				Recycling Methods and G	luan
	•			Ind methods used for on-site recycling of the S	ection
 Codes for recycling methods used are found in EPA's TRI Report Forms and Instructions document 	•	chemic	al (Secti	Ind methods used for on-site recycling of the S	

- Do not include energy recovery processes
- Enter codes in descending order by quantities recycled

Quantity Recycled Ons	ite: Current Year (lbs)	
Recycling Methods: (Select the order of recycling		
First Method	Second Method	
Not Selected	 Not Selected 	
8/2015		
		TRI

TRIREPOR	TING REQUI	REMENTS		#	41	11	41
	Energy	/ Recover	y Met	hods	and O	Quan	tity
Enter c 313 ch	on-site energy reco emical	overy quantity	and me	thods fo	or Section	on	
	ction 313 chemical nificant heating val			and have	ea		
	mbustion unit is int g., industrial furnac				ry syste	m	
Enter c	odes in descendir	ng order by qu	uantities	combu	sted		
Quantity Used for Energ	gy Recovery Onsite:		Current Year	(lbs)			
Energy Recovery Meth (Select the order of energy re							
First Method Not Selected	Second Method Not Selected	Third Method Not Selected	Ŧ				
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- recycling, and energy recovery)
- Check "NA" box to indicate no transfers to off-site locations
- Data/tools

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- Waste manifests and vendor receipts
- RCRA reports
- Waste characterization analyses, profiles

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Non-hazardous waste (e.g., waste oil and coolant)

Container residue: RCRA empty is NOT EPCRA empty

Identify final disposition of each Section 313 chemical: • Disposal, waste treatment, energy recovery, recycling by

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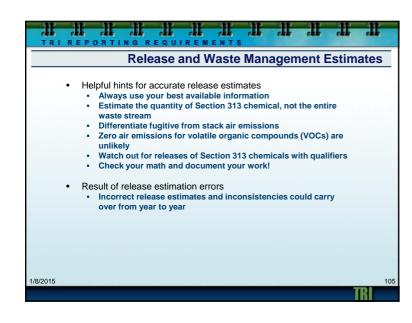
Scrap metal (reuse versus recycle)

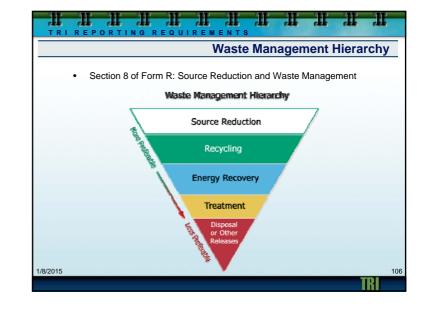
Identify sources for waste composition data

selecting the appropriate code

BE COMPREHENSIVE!

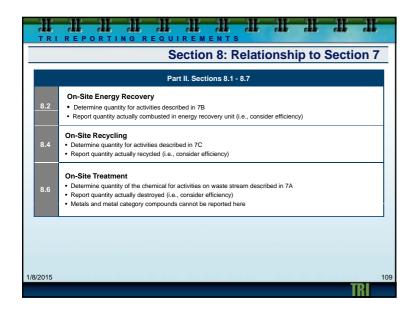
Trash





Production-	Relate	d Was	te Mana	ged (Section 8	.1-8.7)
The sum of section generated through						
reporting year.						
Waste Management Description	Prior Year (RY2009)	Current Year (RY2010)	Following Year (RY2011)		Second Following Yes (RY2012)	r.
8.1a) Total on-site disposal	0	0	0	T NA	0	T NA
8.1b) Total other on-site disposal	390	410	400	T NA	407	T NA
8.1c) Total off-site disposal	0	0	0	T NA	0	I NA
8.1d) Total other off-site disposal	1050	1145	1100	T NA	1068	I NA
8.2) Quantity used for energy recovery onsite	0	0	0		0	I NA
8.3) Quantity used for energy recovery offsite	0	NA	[NA V		NA NA
8.4) Quantity recycled onsite	0	0	0	T NA	0	T NA
8.5) Quantity recycled offsite	0	NA		NA NA		V NA
8.6) Quantity treated onsite	5000	\$150	5100	E NA	4970	NA D
9.7) Quantity treated offsite	0	0	0	T NA	0	IT NA

	Section 8: Relationship to Sections 5 and 6 Part II. Sections 8.1 - 8.7					
8.1a	Total on-site disposal to Class I UIC wells, RCRA & other landfills 5.4.1 + 5.5.1A + 5.5.1B – 6.8 (on-site release or disposal due to catastrophic event)					
8.1b	Total other on-site disposal or other releases 5.1, 5.2, 5.3.1, 5.3.2, 5.3.3, 5.4.2, 5.5.2, 5.5.3A, 5.5.3B, 5.5.4 – 8.8 (on-site release or disposal due to catastrophic event)					
8.1c	Total off-site disposal to Class I UIC wells, RCRA & other landfills Section 6.2, M64, M65, and M81 – 8.8 (off-site disposal due to catastrophic event)					
8.1d	Total other off-site disposal or other releases 6.1 (for metals and metal category compounds only) + 6.2 (quantities associated with M codes M10, M41, M62, M66 M67, M73, M73, M82, M90, M94, M99) – 8.8 (off-site disposal due to catastrophic event)					
8.3	Off-site energy recovery 6.2, M56 and M92 – 8.8 (off-site energy recovery due to catastrophic events)					
8.5	Off-site recycling 6.2, M20, M24, M26, M28, and M93 – 8.8 (off-site recycling due to catastrophic events)					
8.7	Off-site treatment 6.1 (excluding metals and metal category compounds), 6.2 (quantities associated with M codes M50, M54, M61, M69, M95) – 8.8 (off-site treatment due to catastrophic event)					

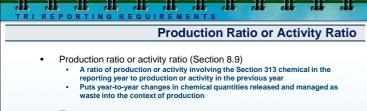


TRI REPORTING REQUIREMENTS

Non-Production-Related Waste Managed

- Enter the quantity of Section 313 chemical released into the environment or transferred off-site (Section 8.8) as a result of:
 - Remediation
 - Catastrophic events (e.g., earthquake, hurricane, fire, floods)
 - Other one-time events not associated with production processes (e.g., pipe rupture due to unexpected weather)
- Does not include Section 313 chemicals treated, recovered for energy, or recycled ON-SITE
- Quantities in Sections 8.1 through 8.7 should not include amounts reported in Section 8.8

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- Tips:
 - Consider using a <u>production ratio</u> when production is directly related to the amount of chemical used or produced
 - Consider using <u>an activity ratio</u> when the chemical is "otherwise used" and the amount is determined by a variable other than production
 - The Production Ratio/Activity Ratio is a ratio, not a percent change
 - You can provide information on the variable you used in your ratio in the "Optional Miscellaneous Info" section using the button in TRI-MEweb
- A Production Ratio Wizard is now available in TRI-MEweb to help you calculate your Production Ratio or Activity Ratio

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Production Ratio or Activity Ratio Examples

Example (Production Ratio): Oven manufacturing

40,000 ovens assembled (Current RY) = 1.14 35,000 ovens assembled (Prior RY)

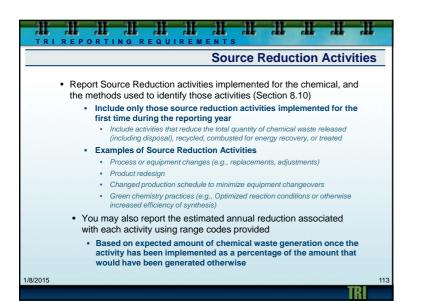
Example (Activity Ratio): Tank washouts

50 Washouts (Current RY) = 0.83 60 Washouts (Prior RY)

- Additional Production / Activity Variable Examples, by Industry
 - · Refractory Manufacturing: Tons of brick manufactured
 - · Chemical Wholesalers: Gallons of glycol ethers packaged
 - Electric Power Generation: Megawatt-hours of electricity produced
 - · National Security: Man-days of training per year
 - Synthetic Dye Manufacturing: Number of color changeovers
 - · Waste Treatment and Disposal: Tons of waste landfilled on-site

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TRI REPORTING REQUIREMENTS

Optional Pollution Prevention Information

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- Report additional information in the open-ended Pollution Prevention Information text field (Section 8.11)
 - This <u>optional</u> section provides an opportunity to publicly highlight any steps your facility took to reduce the amount of toxic chemicals entering the environment
 - Information about recycling, energy recovery, and treatment is welcome in addition to details about source reduction activities
 - Facility can provide information on previous years' activities

Tips

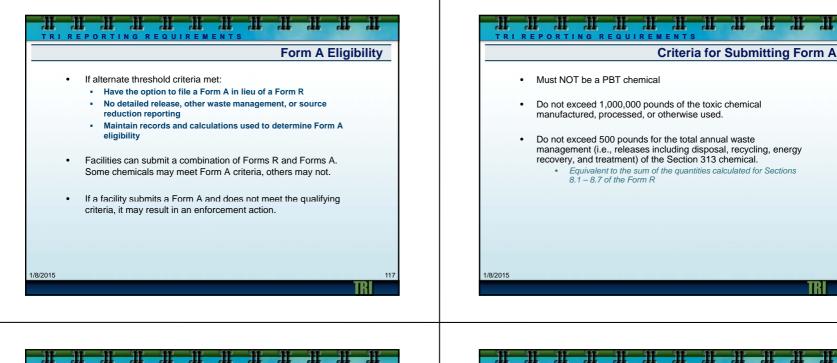
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- Be specific
- Enter useful URLs
- Note any barriers inhibiting P2 (using checkboxes in TRI-MEweb)
- Put information unrelated to P2 in Section 9.1
- TRI's P2 website features P2 information reported by facilities and includes a P2 reporting tip-sheet

http://www.epa.gov/tri/p2

- Optional Miscellaneous Information (Section 9.1)
 - Facility can provide any useful additional information related to any portion of the Form R submission in this new data field
 - · Examples of information to include:
 - Changes in production
 - Facility closures
 - Staffing changes
 - · Calculation methods, e.g., emission factors
 - · Explanation of data quality alerts
- TRI-MEweb provides a pick-list of suggested topics for this Section
 - When providing optional miscellaneous information, it is helpful to check the box next to the topic to which your information pertains





TRI-REPORTING REQUIREMENTS TRI-MEweb and Submitting Via CDX Electronic filing via TRI-MEweb is required No paper submissions are accepted (except for trade secrets), including revisions and withdrawal TRI-MEweb supports new reporting, revisions & withdrawals for RY 1991 – current year TRI-MEweb pre-populates reporting forms with data submitted for the prior reporting year and assists users in finding reporting errors EPA provides instant email confirmation of transmitted and certified submissions

- TRI-MEweb resources including tutorials are available to help users at: www2.epa.gov/toxics-release-inventory-tri-program/tri-meweb-resources
- Use hard-copy form only for trade secret reporting
 - Information about trade secret reporting at: www2.epa.gov/toxics-release-inventory-tri-program/tri-reporting-forms-andinstructions

TRI REPORTING REQUIREMENTS

Accessing TRI-MEweb

- TRI-MEweb is accessed through EPA's Central Data Exchange (CDX)
 - CDX is accessed through: https://cdx.epa.gov
 - TRI-MEweb users must have a CDX account
 - Select TRI-MEweb user role: preparer or certifying official
- Within TRI-MEweb, new users must gain access to their facility
 - Option 1: Enter TRIFID and Technical Contact Name
- Option 2: Enter six-digit facility access code
- Option 3: New facility, never reported to TRI
- · Certifying officials must submit an electronic signature agreement (ESA)
 - Must be completed only once, not annually
 - Option 1: Real-time ESA approval verify user's identity electronically
 - Option 2: Mail in signature form minimum of 5 business days to process
- New certifying officials must submit an (ESA) and a TRIFID certification agreement form before pending submissions can be certified

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