

## **TOXICS RELEASE INVENTORY**

## Form R and Form A Certification Statement Reporting Codes and Instructions for Reporting Metals

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) requires certain facilities manufacturing, processing, or otherwise using listed toxic chemicals to report the annual quantity of such chemicals entering each environmental medium. Such facilities must also report pollution prevention and recycling data for such chemicals, pursuant to section 6607 of the Pollution Prevention Act, 42 U.S.C. 13106. EPCRA section 313 is also known as the Toxics Release Inventory (TRI).

#### **CONTENTS**

CHAPI	ER I FORM R AND FORM A CERTIFICATION STATEMENT REPORTING CODES	. т
	rision Codesthdrawal Codes	
	CRA Section 313 Chemical Category Codes	
	tion 3. Activities and Uses of the EPCRA Section 313 Chemical at the Facility	
	tion 4. Maximum Amount of the Toxic Chemical On-Site at Any Time During the Calendar Ye	ear
	tion 5. Quantity of the Toxic Chemical Entering Each Environmental Medium On-Site and Section 6 Transfer(s) of the Toxic Chemical in Wastes to Off-Site Locations	
Sec	tion 6.1 Discharges to Publicly Owned Treatment Works: Disposal / Treatment Codes (POTW)	).3
	tion 6.2 Transfers to Other Off-Site Locations: Type of Waste Disposal/Treatment/Energy Recovery/Recycling	3
Sec	tion 7A: On-Site Waste Treatment Methods and Efficiency	5
	tion 7B: On-Site Energy Recovery Processes	
Sec	tion 7C: On-Site Recycling Processes	5
Sec	tion 8.10 Source Reduction Activity Codes	6
Sec	tion 8.11 Optional Pollution Prevention Information	7
СНАРТ	ER 2 REPORTING THE WASTE MANAGEMENT OF METALS	8
	tion 5.3 Discharges to Receiving Streams or Water Bodies and Section 6.1 Discharges to	
	Publicly Owned Treatment Works	
	tion 6.2 Transfers to Other Off-Site Locations	
	tion 7A: On-Site Waste Treatment Methods and Efficiency	
	tion 7B: On-Site Energy Recovery Processes	
	tion 7C: On-Site Recycling Processes	
Sec	tion 8. Source Reduction and Recycling Activities	10

#### **DISCLAIMER**

This guidance document is intended to assist industry by summarizing TRI Form R and Form A Certification Statement reporting codes and specific instructions for reporting metals. These recommendations do not supersede any statutory or regulatory requirements, are subject to change, and are not independently binding on either EPA or covered facilities. Additionally, if a conflict exists between guidance on this site and the statutory or regulatory requirements, the conflict must be resolved in favor of the statute or regulation.

Although EPA encourages industry to consider these recommendations, in reviewing this document, industry should be aware that these recommendations were developed to address common circumstances at typical facilities. Facilities are encouraged to contact the Agency with any additional or clarifying questions about the recommendations in this document, or if the facility believes that EPA has incorrectly characterized a particular process or recommendation.

Additional guidance documents, including industry specific and chemical specific guidance documents, are also available on TRI's GuideME website: <a href="https://ofmpub.epa.gov/apex/guideme\_ext/f?">https://ofmpub.epa.gov/apex/guideme\_ext/f?</a>
<a href="psecific guidance">p=guideme:gd-list</a></a>

#### **OVERVIEW**

This document is intended to assist establishments and facilities with summarizing TRI Form R and Form A Certification Statement reporting codes and specific instructions for reporting metals. The EPCRA section 313 program is commonly referred to as the Toxic Chemical Release Inventory (TRI). For background on the TRI program, resources for determining whether a facility must report, and reporting requirements, please refer to the current TRI Reporting Forms and Instructions, also available on GuideME.

## CHAPTER orm R and Form A Certification Statement Reporting Codes

This chapter summarizes reporting codes currently used for the TRI Form R and Form A Certification Statement (OMB Number: 2025-0009; Approval expires: 10/31/2021). Reporting codes are grouped by the appropriate Form R section. Codes no longer in use are listed as retired codes.

#### **Revision Codes**

RR1	New Monitoring Data	RR4	Recalculation(s)
RR2	New Emission Factor(s)	RR5	Other Reason(s)
RR3	New Chemical Concentration Data		

#### **Withdrawal Codes**

WT1	Did not meet the reporting threshold for manufacturing, processing, or otherwise use
WT2	Did not meet the reporting threshold for number of employees
WT3	Not in a covered NAICS Code

WO1 Other reason(s)

## **EPCRA Section 313 Chemical Category Codes**

N010	Antimony compounds	N450	Manganese compounds
N020	Arsenic compounds	N458	Mercury compounds
N040	Barium compounds	N495	Nickel compounds
N050	Beryllium compounds	N503	Nicotine and salts
N078	Cadmium compounds	N511	Nitrate compounds
N084	Chlorophenols	N530	Nonylphenol
N090	Chromium compounds	N535	Nonylphenol ethoxylates
N096	Cobalt compounds	N575	Polybrominated biphenyls (PBBs)
N100	Copper compounds	N583	Polychlorinated alkanes
N106	Cyanide compounds	N590	Polycyclic aromatic compounds
N120	Diisocyanates	N725	Selenium compounds
N150	Dioxin and dioxin-like compounds	N740	Silver compounds
N171	Ethylenebisdithiocarbamic acid, salts and	N746	Strychnine and salts
	esters (EBDCs)	N760	Thallium compounds
N230	Certain glycol ethers	N770	Vanadium compounds
N270	Hexabromocyclododecane	N874	Warfarin and salts
N420	Lead compounds	N982	Zinc compounds

## Section 3. Activities and Uses of the EPCRA Section 313 Chemical at the Facility

#### **Section 3.2 Process Sub-Use Codes**

3.2.a: <i>I</i>	<u>As a Reactant</u>	P203	Reaction diluents
P101	Feedstocks	P204	Initiators
P102	Raw materials	P205	Solvents
P103	Intermediates	P206	Inhibitors
P104	Initiators	P207	Emulsifiers
P199	Other	P208	Surfactants
2 2 h.	As a formulation component	P209	Lubricants
<u>3.2.0. 1</u>	As a formulation component	P210	Flame retardants
P201	Additives	P211	Rheological modifiers
P202	Dyes	P299	Other

#### **Section 3.3 Otherwise Use Sub-Use Codes**

3.3.a:	As a chemical processing aid	Z205	Hydraulic fluids
Z101	Process solvents	Z299	Other
Z102	Catalysts	330.	Ancillary or other use
Z103	Inhibitors	<u>J.J.C.</u>	Allemary of other use
Z104	Initiators	Z301	Cleanser
Z105	Reaction terminators	Z302	Degreaser
Z106	Solution buffers	Z303	Lubricant
Z199	Other	Z304	Fuel
3.3.b:	As a manufacturing aid	Z305	Flame retardant
<u>5.5.6.</u>	to a manaractaring are	Z306	Waste treatment
Z201	Process lubricants	Z307	Water treatment
Z202	Metalworking fluids	Z308	Construction materials
Z203	Coolants	Z399	Other
Z204	Refrigerants		

Section 4. Maximum Amount of the Toxic Chemical On-Site at Any Time During the Calendar Year

Range Code	From	To
01	0	99
02	100	999
03	1,000	9,999
04	10,000	99,999
05	100,000	999,999
06	1,000,000	9,999,999
07	10,000,000	49,999,999
08	50,000,000	99,999,999
09	100,000,000	499,999,999
10	500,000,000	999,999,999
11	1 billion	More than 1 billion

# Section 5. Quantity of the Toxic Chemical Entering Each Environmental Medium On-Site and Section 6 Transfer(s) of the Toxic Chemical in Wastes to Off-Site Locations

#### **Range Codes for Non-PBT Chemicals**

Range Code	From
A	1-10
В	11-499
С	500-999

#### **Basis of Estimate**

- M1 Estimate is based on continuous monitoring data or measurements for the EPCRA section 313 chemical.
- M2 Estimate is based on periodic or random monitoring data or measurements for the EPCRA section 313 chemical.
- C Estimate is based on mass balance calculations, such as calculation of the amount of the EPCRA section 313 chemical in streams entering and leaving process equipment.
- Estimate is based on published emission factors, such as those relating release quantity to through-put or equipment type (e.g., air emission factors). This may include emissions factors in a trade associations publication or AP-42.
- E2 Estimate is based on site-specific emission factors, such as those relating release quantity to through-put or equipment type (e.g., air emission factors). This may include emissions factors that are developed for a specific piece of equipment and that consider climate conditions on-site.
- O Estimate is based on other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgment. This would include applying an estimated removal efficiency to a waste stream, even if the composition of the stream before treatment was fully identified through monitoring data.

## Section 6.1 Discharges to Publicly Owned Treatment Works: Disposal / Treatment Codes (POTW)

<u>Dispos</u>	<u>al</u>	Treatn	aont
P30	Discharged to Water Stream	<u> 110aui</u>	<u>nent</u>
P31	Discharged to Other Activities	P37	Other or Unknown Treatment
P32	Released to Air	P38	Sludge to incineration
P33	Sludge to disposal	P39	Experimental and Estimated Treatment
P34	Metals and metal compounds only –		Data (TRI provided)
	Sludge to incineration		1 /
P35	Sludge to agricultural applications		
P36	Other or Unknown Disposal		

## Section 6.2 Transfers to Other Off-Site Locations: Type of Waste Disposal/Treatment/Energy Recovery/Recycling

<u>Disposal</u>		M94	Transfer to Waste Broker – Disposal
M10	Storage Only	M99	Management Method Unknown
M41 M62	Solidification/Stabilization - Metals and Metal Category Compounds only Wastewater Treatment (Excluding POTW) - Metals and Metal Category	Treatm M40 M50 M54	nent Solidification/Stabilization Incineration/Thermal Treatment Incineration/Insignificant Fuel Value
M64 M65 M66 M67 M73	Compounds only Other Landfills RCRA Subtitle C Landfills Subtitle C Surface Impoundment Other Surface Impoundments Land Treatment	M61 M69 M95	Wastewater Treatment (Excluding POTW) Other Waste Treatment Transfer to Waste Broker - Waste Treatment
M79	Other Land Disposal	<b>Energy</b>	<u> Recovery</u>
M81 M82 M90	Underground Injection to Class I Wells Underground Injection to Class II-V Wells Other Off-Site Management	M56 M92	Energy Recovery Transfer to Waste Broker - Energy

	Recovery	M26	Other Reuse or Recovery
<u>Recycl</u>	<u>ing</u>	M28 M93	Acid Regeneration Transfer to Waste Broker - Recycling
M20 M24	Solvents/Organics Recovery Metals Recovery		
Retire	ed Codes		
M63	Surface impoundment (retired effective RY2003)	M72	Landfill/Disposal surface impoundment (retired effective RY2002)
M71	Underground injection (retired effective RY2003)	M91	Transfer to waste broker (retired effective RY1991)

## **Section 7A: On-Site Waste Treatment Methods and Efficiency**

#### **General Waste Stream**

A Gaseous (gases, vapors, airborne particulates)

W Wastewater (aqueous waste)

L Liquid waste streams (non-aqueous waste)

S Solid waste streams (including sludges and slurries)

#### **Waste Treatment Methods**

Air Emissions Treatment		Biological Treatment	
A01	Flare	H081	Biological treatment with or without
A02	Condenser		precipitation
A03 A04 A05 A06 A07	Scrubber Absorber Electrostatic Precipitator Mechanical Separation Other Air Emission Treatment	Physics H082 H083 H101 H103	al Treatment Adsorption Air or steam stripping Sludge treatment and/or dewatering Absorption
<u>Chemi</u>	<u>cal Treatment</u>	H111	Stabilization or chemical fixation prior to
H040	Incinerationthermal destruction other		disposal
	than use as a fuel	H112	Macro-encapsulation prior to disposal
H071	Chemical reduction with or without	H121	Neutralization
	precipitation	H122	Evaporation
H073	Cyanide destruction with or without	H123	Settling or clarification
	precipitation	H124	Phase separation
H075	Chemical oxidation	H129	Other treatment
H076	Wet air oxidation		
H077	Other chemical precipitation with or without pre-treatment		

## **Section 7B: On-Site Energy Recovery Processes**

U01	Industrial Kiln
U02	Industrial Furnace
U03	<b>Industrial Boiler</b>

## **Section 7C: On-Site Recycling Processes**

- H10 Metal recovery (by retorting, smelting, or chemical or physical extraction)
- H20 Solvent recovery (including distillation, evaporation, fractionation or extraction)
- H39 Other recovery or reclamation for reuse (including acid regeneration or other chemical reaction process)

## **Section 8.10 Source Reduction Activity Codes**

#### **Source Reduction Activity Codes**

Sourc	e Reduction Activity Codes		
Good (	Operating Practices	14740	chemical with a different chemical
W13	Improved maintenance scheduling, record	W49 Proces	Other raw material modifications made s Modifications
W14	keeping, or procedures Changed production schedule to minimize equipment and feedstock changeovers	W50	Optimized reaction conditions or
W15	Introduced in-line product quality monitoring or other process analysis	W51 W52	otherwise increased efficiency of synthesis Instituted recirculation within a process Modified equipment, layout, or piping
W19	system Other changes in operating practices	W53 W54	Use of a different process catalyst Instituted better controls on operating bulk
Invent	ory Control	<b>**</b> 54	containers to minimize discarding of
W21	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	W55	empty containers Changed from small volume containers to bulk containers to minimize discarding of empty containers
W22	Began to test outdated material - continue to use if still effective	W56	Reduced or eliminated use of an organic solvent
W23	Eliminated shelf-life requirements for stable materials	W57	Used biotechnology in manufacturing
W24 W25	Instituted better labeling procedures Instituted clearinghouse to exchange	W58	process Other process modifications
VV 23	materials that would otherwise be	<u>Cleani</u>	ng and Degreasing
W29	discarded Other changes in inventory control	W59 W60	Modified stripping/cleaning equipment Changed to mechanical stripping/cleaning
<u>Spill a</u>	nd Leak Prevention		devices (from solvents or other materials)
W31	Improved storage or stacking procedures	W61	Changed to aqueous cleaners (from solvents or other materials)
W32	Improved procedures for loading, unloading, and transfer operations	W63	Modified containment procedures for cleaning units
W33	Installed overflow alarms or automatic shut-off valves	W64 W65	Improved draining procedures Redesigned parts racks to reduce drag out
W35	Installed vapor recovery systems	W66	Modified or installed rinse systems
W36	Implemented inspection or monitoring	W67	Improved rinse equipment design
	program of potential spill or leak sources	W68	Improved rinse equipment operation
W39	Other changes made in spill and leak prevention	W71	Other cleaning and degreasing modifications
Raw M	<u> Material Modifications</u>	Surfac	e Preparation and Finishing
W41 W42	Increased purity of raw materials Substituted raw materials	W72	Modified spray systems or equipment

W75	Changed from spray to other system		products
W78	Other surface preparation and finishing	W83	Modified packaging
	modifications	W84	Developed a new chemical product to
Product Modifications		W89	replace a previous chemical product Other product modifications

W81 Changed product specificationsW82 Modified design or composition of

#### **Methods Used to Identify Source Reduction Activities**

For each source reduction activity, enter up to three of the following codes that correspond to the method(s) which contributed most to the decision to implement that activity.

T01	Internal Pollution Prevention Opportunity Audit(s)
T02	External Pollution Prevention Opportunity Audit(s)
T03	Materials Balance Audits
T04	Participative Team Management
T05	Employee Recommendation (independent of a formal company program)
T06	Employee Recommendation (under a formal company program)
T07	State Government Technical Assistance Program
T08	Federal Government Technical Assistance Program
T09	Trade Association/Industry Technical Assistance Program
T10	Vendor Assistance
T11	Other

#### **Section 8.11 Optional Pollution Prevention Information**

#### **Barriers to Implementing Pollution Prevention Activities**

- B1 Insufficient capital to install new source reduction equipment or implement new source reduction activities/initiatives
   B2 Require technical information on pollution prevention techniques applicable to specific
  - production processes

    Concern that product quality may decline as a result of source reduction
- B4 Source reduction activities were implemented but were unsuccessful
- B5 Specific regulatory/permit burdens
- Pollution prevention previously implemented—additional reduction does not appear technically or economically feasible
- B7 No known substitutes or alternative technologies
- B8 Reduction does not appear to be technically feasible
- B99 Other barriers

#### **Retired Codes**

**B**3

B8 Other barriers (replaced effective RY2018)

#### **Chapter 2 Reporting the Waste Management of Metals**

This chapter outlines how the TRI-MEweb reporting software restricts reporting for metals when the specific data element or waste management code is not applicable for a particular chemical. Below is a list of metals divided into four groups along with charts that help explain where quantities of these chemicals can and cannot be reported on the Form R using TRI-MEweb. In addition, there are charts that explain restrictions on reporting waste management codes for the toxic chemicals in each of the four groups. This chapter only shows where reporting is restricted in TRI-MEweb, it does not indicate every situation where a metal should not be reported in a specific section of the form. For example, TRI-MEweb does not restrict the reporting of most individually listed metal compounds as used for energy recovery (Sections 8.2 and 8.3) even though some of these chemicals do not have a heat value greater than 5000 British thermal units (Btu) and, thus, cannot be combusted for energy recovery. It is left to the facility to decide which of these toxic chemicals can be used for energy recovery.

Parent Metals	Metal Compound Categories	Metals with Qualifiers	Individually Listed Metal Compounds
Antimony	Antimony Compounds	Aluminum (fume or	Bis(tributyltin) oxide
Arsenic	Arsenic Compounds	dust)	Triphenyltin hydroxide
Barium	Barium Compounds	Vanadium (except	Triphenyltin chloride
Beryllium	Beryllium Compounds	when in an alloy)	Molybdenum trioxide
Cadmium	Cadmium Compounds	Zinc (fume or dust)	Thorium dioxide
Chromium	Chromium Compounds		Asbestos (friable)
Cobalt	Cobalt Compounds		Aluminum oxide (fibrous
Copper	Copper Compounds		forms)
Lead	Lead Compounds		Tributyltin fluoride
Manganese	Manganese Compounds		Tributyltin methacrylate
Mercury	Mercury Compounds		Titanium tetrachloride
Nickel	Nickel Compounds		Boron trifluoride
Selenium	Selenium Compounds		Metiram
Silver	Silver Compounds		Boron trichloride
Thallium	Thallium Compounds		Zineb
	Vanadium Compounds		Maneb
	Zinc Compounds		Fenbutatin oxide
			Iron pentacarbonyl
			Ferbam
			C.I. Direct Brown 95
			Osmium tetroxide
			Aluminum phosphide
			C.I. Direct Blue 218

## Section 5.3 Discharges to Receiving Streams or Water Bodies and Section 6.1 Discharges to Publicly Owned Treatment Works

The following chart indicates which metals can be reported as released to water in Section 5.3 or to POTWs in Section 6.1. Only zinc (fume or dust) and aluminum (fume or dust) are not reported in these sections because the fume or dust form of a toxic chemical cannot exist in water.

The release and other waste management information that you report for metal category compounds will be the total amount of the parent metal released and NOT the whole metal category compound. The metal cannot be treated because it cannot be destroyed. Thus, transfers of metals and metal category compounds for further waste management should be reported as a disposal. The applicable codes for transfers of metals and metal category compounds in wastewater to a POTW for disposal include P30, P31, P32, P33, P34, P35, and P36.

Form R Section in Part II	Parent Metals	Metal Category Compounds	Metals with Qualifiers	Individually Listed Metal Compounds
Section 5.3 - Discharges to receiving streams or water bodies	All	All	Vanadium (except when contained in an alloy)	All except Asbestos
Section 6.1- Discharges to POTWs	All	All	Vanadium (except when contained in an alloy)	All except Asbestos

#### **Section 6.2 Transfers to Other Off-Site Locations**

Any toxic chemical may be reported in Section 6.2. However, TRI-MEweb will not allow certain M codes to be used when reporting metals. The chart below indicates which M codes can be reported in Section 6.2 for the four groups of metals. Note that all disposal M codes other than M41 and M62 can be used for all toxic chemicals. Code M24 is only made available for the four groups of metals.

Waste Management Code for Section 6.2	Parent Metals	Metal Category Compounds	Metals with Qualifiers	Individually Listed Metal Compounds
M41 and M62 (disposal codes-for metals only)	All	All	Vanadium (except when contained in an alloy)	All except Asbestos
M56 and M92 (energy recovery codes)	None	None	None	All except Asbestos <sup>1</sup>
M20 and M28 (recycling codes)	None	None	None	All
M24, M26 and M93 (recycling codes)	All	All	All	All
M40, M50, M54, (treatment codes)	None	None	All except Vanadium (except when contained in an alloy)	All
M61, M69, M95 (treatment codes)	Barium <sup>2</sup>	Barium Compounds <sup>2</sup>	Same as above	All

<sup>&</sup>lt;sup>1</sup> Although TRI-MEweb does not restrict reporting of most individually listed metal compounds as transferred off site for energy recovery, only chemicals with a heat value greater than 5000 British thermal units that are combusted in a device that is an industrial furnace or boiler (40 CFR Section 372.3) should be reported as used for energy recovery.

#### Section 7A: On-Site Waste Treatment Methods and Efficiency

TRI-MEweb allows any toxic chemical to be reported in Section 7A; however, it limits reporting in two ways. First, TRI-MEweb limits the treatment codes that can be reported based on the General Waste Stream Code selected. If a TRI-MEweb user selects General Waste Stream code "A – Gaseous", all Waste Treatment Codes are made available. However, if a user selects from the remaining three General Waste Stream Codes (W - Wastewater, L - Liquid waste streams, or S - Solid waste streams), the "Air Emissions Treatment" Waste Treatment Codes are not made available. Second, the software restricts reporting for certain toxic chemicals with qualifiers. When reporting zinc (fume or dust) or aluminum (fume or dust) TRI-MEweb will not allow the user to select General Waste Stream Codes W-Wastewater

<sup>&</sup>lt;sup>2</sup> The toxic chemical category barium compounds (N040) does not include barium sulfate. Because barium sulfate is not a listed toxic chemical, the conversion in a waste stream of barium or barium compound to barium sulfate is considered treatment for destruction (40 CFR Section 372.3).

and L-Liquid waste streams because the fume or dust form of a toxic chemical cannot exist in a liquid or water waste. For asbestos (friable) only S - Solid or A - Gaseous can be selected. When reporting hydrochloric acid (acid aerosols) or sulfuric acid (acid aerosols) only A - Gaseous can be selected.

#### **Section 7B: On-Site Energy Recovery Processes**

Energy Recovery Code for Section 7B	Parent Metals	Metal Category Compounds	Metals with Qualifiers	Individually Listed Metal Compounds
U01, U02, U03	None	None	None	All except Asbestos <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Although TRI-MEweb does not restrict reporting of most individually listed metal compounds as transferred off site for energy recovery, only chemicals with a heat value greater than 5000 British thermal units that are combusted in a device that is an industrial furnace or boiler (40 CFR Section 372.3) should be reported as used for energy recovery.

#### **Section 7C: On-Site Recycling Processes**

Any chemical can be reported in Section 7C. However, certain waste management codes should not be reported for certain toxic chemicals. The chart below indicates which codes can be reported in Section 7C when using TRI-MEweb.

Recycling Code for Section 7C	Parent Metals	Metal Category Compounds	Metals with Qualifiers	Individually Listed Metal Compounds
H10 (this code is for metals only)	All	All	All	All
H20	None	None	None	All
H39	All	All	All	All

#### **Section 8. Source Reduction and Recycling Activities**

The chart below indicates which metals can be reported in Sections 8.2, 8.3, 8.6 and 8.7 of the Form R when using TRI-MEweb. Note that all toxic chemicals can be reported in Sections 8.1, 8.4, 8.5 and 8.8.

Waste Management Activity	Parent Metals	Metal Category Compounds	Metals with Qualifiers	Individually Listed Metal Compounds
Quantity used for energy recovery on site and off site (Sections 8.2 and 8.3)	None	None	None	All except Asbestos <sup>1</sup>
Quantity treated for destruction on site and off site (Sections 8.6 and 8.7)	None except Barium <sup>2</sup>	None except Barium Compounds <sup>2</sup>	All except Vanadium (except when contained in an alloy)	All

<sup>&</sup>lt;sup>1</sup> Although TRI-MEweb does not restrict reporting of most individually listed metal compounds as transferred off site for energy recovery, only chemicals with a heat value greater than 5000 British thermal units that are combusted in a device that is an industrial furnace or boiler (40 CFR Section 372.3) should be reported as used for energy recovery.

<sup>&</sup>lt;sup>2</sup> The toxic chemical category barium compounds (N040) does not include barium sulfate. Because barium sulfate is not a listed toxic chemical, the conversion in a waste stream of barium or barium compound to barium sulfate is considered treatment for destruction (40 CFR Section 372.3).