



In-depth Manifest Training

March 24, 2022



24th California Unified Program
Annual Training Conference
March 22, 23, 24, 29, 30, 31 - 2022



Who we are

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What we offer

- Training
- Consulting
- Auditing
- Characterization



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Hazardous Waste Manifest

- Required by
 - EPA for RCRA
 - DTSC for Non-RCRA
 - DOT for hazmat (as shipping paper)

The image shows a sample of the Uniform Hazardous Waste Manifest form. The form is divided into several sections:

- UNIFORM HAZARDOUS WASTE MANIFEST:** Includes fields for Generator ID Number, Emergency Response Phone, Manifest Tracking Number, Generator's Name and Mailing Address, Generator's Site Address, and Generator's Phone.
- TRANSPORTER:** Includes fields for Transporter 1 and 2 Company Names, U.S. EPA ID Numbers, and Facility Name and Site Address.
- DESIGNATED FACILITY:** Includes fields for Facility Name, U.S. DOT Description, Container No. and Type, Total Quantity, U.S. EPA ID Number, and U.S. Waste Codes.
- GENERAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION:** A section for providing specific handling instructions.
- GENERATOR'S CERTIFICATION:** A section where the generator certifies that the contents are fully and accurately described.
- TRANSPORTER'S CERTIFICATION:** A section where the transporter certifies that the contents are fully and accurately described.
- DESIGNATED FACILITY'S CERTIFICATION:** A section where the designated facility certifies that the contents are fully and accurately described.



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Who Regulates the Manifest

Meet DOT, DTSC and EPA requirements



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**EPA requires
Uniform
Hazardous Waste
Manifest**

**Hazardous
Material
DOT**

**Non-RCRA
Hazardous
Waste**



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Emergency Response Information

- Information must be
 - In English
 - Legible
 - Available away from package

Please print or type. (Form designed for use on 10 1/2x14 1/2) (Appendix B)

Form Approved OMB No. 2000-0019

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of 3
3. Emergency Response Phone
4. Manifest Tracking Number

5. Generator's Name and Mailing Address
6. Generator's Phone
7. Transporter 1 Company Name
8. Transporter 2 Company Name
9. Designated Facility Name and Site Address

10. Container No., Type, Quantity
11. Total Wt./Vol.
12. Unit
13. Waste Codes

14. Special Handling Instructions and Additional Information

15. GENERATOR'S OFFICER'S CERTIFICATION: I hereby declare that the contents of this consent are fully and accurately classified above by the proper shipping name, and are identified, packaged, marked and labeled according to the applicable Federal, State and local regulations. I certify that the waste description information identified in 40 CFR 102.27(a) (if any) is a large quantity generator or (b) (if any) is a small quantity generator is true.

16. International Shipments
17. Transporter Acknowledgment of Receipt of Materials
18. Discrepancy
19. Alternate Facility (or Generator)
20. Designated Waste Receipt Management Method Code (EPA codes for hazardous waste treatment, storage, and recycling systems)
21. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 19b.

U.S. Form HW-202 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)



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Examples

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		No.	Type				
	1X UN2794, BATTERIES, WET, FILLED WITH ACID, 8, (UNIVERSAL WASTES)	02	DF	240		P	221
	2X WASTE UN1203, GASOLINE, 3, PG II	01	DM	200		P	221 223

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		No.	Type				
	1. NONE, NON-RCRA HAZARDOUS WASTE, LIQUIDS, (USED OIL), N/A	20	TT	200	6		221
	2. NON RCRA HAZARDOUS WASTE LIQUIDS, (OIL Y WATER)	001	TT	300	6		223
	3.						

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		No.	Type				
X	1. UN3432, Polychlorinated Biphenyls, Solid, 9, PG II, (Contains: Fluorescent Light Ballasts) (ERG #171)	001	CF	16	K		
X	2. RCRA Hazardous Waste Solid, n.o.s (Contains: Mercury), 9, III	002	DM	194	P		2009

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		No.	Type				
X	1. UN1203, Gasoline, 3, PG II, (Contains: Mercury), 9, III	001	DF	00100	P		
	2.						



The DOT Table

Sym-bols	Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class or Division	Identifi-cation Nos.	PG
(1)	(2)	(3)	(4)	(5)
	Acetone	3	UN1090	II
	Aerosols, <i>flammable (each not exceeding 1 L capacity)</i>	2.1	UN1950	
	Alcohols, n.o.s.	3	UN1987	I II III
D	Asbestos	9	NA2212	III
	Biological substance, Category B	6.2	UN3373	
	Bromine chloride	2.3	UN2901	
A W	Carbon dioxide, solid <i>or</i> Dry ice	9	UN1845	
	<i>Chlorine azide</i>	Forbidden		
D G	Compounds, cleaning liquid	3	NA1993	I II III
	Consumer commodity	9	ID8000	
G	Corrosive liquid, acidic, organic, n.o.s.	8	UN3265	I II III
G	Flammable liquids, n.o.s.	3	UN1993	I II III
D G	Hazardous waste, liquid, n.o.s.	9	NA3082	III
D G	Hazardous waste, solid, n.o.s.	9	NA3077	III

Picking a Proper Shipping Name

- Specific chemical/article name
 - Isopropanol
- End use name
 - Compounds, cleaning liquid
- Chemical family name
 - Alcohols, n.o.s.
- Generic hazard class name
 - Flammable liquids, n.o.s.

Symbols	Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class or Division	Identification Nos.	PG
(1)	(2)	(3)	(4)	(5)
	Acetone	3	UN1090	II
	Aerosols, flammable (each not exceeding 1 L capacity)	2.1	UN1950	
	Alcohols, n.o.s.	3	UN1987	I II III



Naming Hazardous Waste

- EPA requires manifest
- Automatically DOT HM
- Add “waste” to PSN
- DTSC requires manifest
- May/may not be DOT HM
- Do not add “waste” to PSN

Please print or type. Form designed for use on 8 1/2" x 11" (landscape) typewriter. Form Approved. OMB No. 2050-0031

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number

5. Generator's Name and Mailing Address Generator's Site Address (if different from mailing address)

Generator's Phone U.S. EPA ID Number

6. Transporter 1 Company Name U.S. EPA ID Number

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address U.S. EPA ID Number

Facility's Phone:

No. and Packing Group (if any)	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number)	10. Container		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type			1	2	3
1								
2								
3								
4								

14. Special Handling Instructions and Additional Information

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/identified, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of the manifest conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste identification statement described in 49 CFR 263.27(a) (if any) is a large quantity generator or (b) (if any) is a small quantity generator) is true.

Generator's Name (Typed Name) Signature Month Day Year

16. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaves U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name Signature Month Day Year

Transporter 2 Printed/Typed Name Signature Month Day Year

18. Discrepancy: 18a. Discrepancy Indication: Quantity Type Reason Partial Rejection Full Rejection

19. Alternate Facility (or Generator): Manifest Reference Number: _____ U.S. EPA ID Number: _____ Facility's Phone: _____ Signature of Alternate Facility (or Generator): _____ Month Day Year

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a: Hazardous Waste Report Management Method Codes (U.S. codes for hazardous waste treatment, disposal, and recycling systems) _____ Manifest Tracking Number: _____ Designated Facility Name (Typed Name) Signature Month Day Year

EPA Form 8700-22 (Rev. 2-05) Precedence editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)



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Example

- Do you have to manifest?
- Who makes you manifest?
- Add "waste" or not?
 - Non-RCRA HW:
Sodium hydroxide, solid
 - RCRA HW:
Waste Sodium hydroxide, solution



Naming Non-RCRA Hazardous Waste

- If HM with a DOT description
 - Utilize the DOT description

- e.g., Sodium hydroxide, solid



Naming Non-RCRA Hazardous Waste

- If HM with no DOT description
 - Utilize a generic name from Appendix X, subsection (b)
- If not on Apx. X, commonly recognized industrial name

(b) This subdivision sets forth a list of common names of wastes which are presumed to be hazardous wastes unless it is determined that the waste is not a hazardous waste pursuant to the procedures set forth in section 6626211. The hazardous characteristics which serve as a basis for listing the common names of wastes are indicated in the list as follows:

Catalyst (X,I,C)
Caustic sludge (C)
Caustic wastewater (C)
Cleaning solvents (I)
Corrosion inhibitor (X,C)
Data processing fluid (I)
Drilling fluids (X,C)
Drilling mud (X)
Dyes (X)
Etching acid liquid or solvent (C,I)
Fly ash (X,C)
Fuel waste (X,I)
Insecticides (X)

Example

- “Non-RCRA hazardous waste, solid” or
- “Non-RCRA hazardous waste, liquid”

- e.g., Drilling mud, non-RCRA hazardous waste, solid



22 CCR 66262.23

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Identification Number

- UN = United Nations
- NA = North America
- Marked on non-bulk packages and included on manifest
- Indicate emergency response

Sym-bols	Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class or Division	Identifi-cation Nos.	PG
(1)	(2)	(3)	(4)	(5)
	Acetone	3	UN1090	II
	Aerosols, flammable (each not exceeding 1 L. capacity)	2.1	UN1950	
	Alcohols, n.o.s.	3	UN1987	I II III

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ERG

ID No.	Guide No.	Name of Material	ID No.	Guide No.	Name of Material
1089	129P	Acetaldehyde	1131	131	Carbon bisulfide
1090	127	Acetone	1131	131	Carbon bisulphide
1091	127	Acetone oils	1131	131	Carbon disulfide
1092	131P	Acrolein, stabilized	1131	131	Carbon disulphide
1093	131P	Acrylonitrile, stabilized	1133	128	Adhesives (flammable)
1098	131	Allyl alcohol	1134	130	Chlorobenzene
1099	131P	Allyl bromide	1135	131	Ethylene chlorohydrin

ID No.	Guide No.	Name of Material	Guide ID No.	Name of Material	Guide ID No.
1104	129	AC	117	Acrylamide, solid	153P 2074
1105	129	Acetal	127	Acrylamide, solution	153P 3426
1106	132	Acetaldehyde	129P	Acrylic acid, stabilized	132P 2218
1108	128	Acetaldehyde ammonia	171	Acrylonitrile, stabilized	131P 1093
1108	128	Acetaldehyde oxime	129	Adamsite	154
1109	129	Acetic acid, glacial	132	Adhesives (flammable)	128 1133
1110	127	Acetic acid, solution, more than 10% but not more than 80% acid	153	Adiponitrile	153 2205
		Acetic acid, solution, more than 80% acid	132	Adsorbed gas, flammable, n.o.s.	174 3510
		Acetic anhydride	137	Adsorbed gas, n.o.s.	174 3511
		Acetone	127	Adsorbed gas, oxidizing, n.o.s.	174 3513
		Acetone cyanohydrin, stabilized	155	Adsorbed gas, poisonous, corrosive, n.o.s.	173 3516
				Adsorbed gas, poisonous	173 3516

GUIDE 127 FLAMMABLE LIQUIDS (WATER-MISCIBLE)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames.
- **CAUTION:** Ethanol (UN1170) can burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)
- Vapors may form explosive mixtures with air.
- Vapors may travel.
- Most vapors are heavier than air (sewers, basements, etc.).
- Vapor explosion/combustion hazard.
- Those substances which are highly flammable may cause severe burns when in contact with skin.
- Runoff to sewer may create fire or explosion.
- Containers may explode when heated.
- Many liquids will flammable.

HEALTH

- Inhalation or contact with liquid can irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/or poisonous gases.
- Vapors may cause respiratory distress.
- Runoff from fire or spillage of liquid may burn.
- **CALL 911.** Then follow instructions.

FLAMMABLE LIQUIDS (WATER-MISCIBLE) GUIDE 127

EMERGENCY RESPONSE

FIRE

- **CAUTION:** The majority of these products have a very low flash point. Use of water spray when fighting fire may be inefficient.
- **CAUTION:** For fire involving UN1170, UN1987 or UN3475, alcohol-resistant foam should be used.
- **CAUTION:** Ethanol (UN1170) can burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)
- **Small Fire**
 - Dry chemical, CO₂, water spray or alcohol-resistant foam.
- **Large Fire**
 - Water spray, fog or alcohol-resistant foam.
 - Avoid aiming straight or solid streams directly onto the product.
 - If it can be done safely, move undamaged containers away from the area around the fire.

Fire Involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- **ALWAYS** stay away from tanks engulfed in fire.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor-suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean, non-sparking tools to collect absorbed material.



DOT Hazard Classes

Table 2-1 DOT Hazard Classes

Class or Division No.	Name of Class or Division	49 CFR Section
1.1 to 1.6	Explosives	173.50
2.1 to 2.3	Flammable, non-flammable/non-poisonous, and poisonous by inhalation gases	173.115
3	Flammable and combustible liquids	173.120
4.1 to 4.3	Flammable solids, spontaneously combustible materials, and dangerous when wet materials	173.124
5.1 and 5.2	Oxidizers and organic peroxides	173.127 and 173.128
6.1 and 6.2	Poisonous liquids and solids and infectious substances	173.132 and 173.134
7	Radioactives	173.403
8	Corrosives	173.136
9	Miscellaneous hazardous materials	173.140

Packing Groups

- Severity/degree of hazard
 - PG I = Major danger
 - PG II = Medium danger
 - PG III = Minor danger
 - Not every hazard class has PGs



Manifest Types

- 5-page paper manifest
- Hybrid or mixed manifest
- e-Manifest



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Manifest Copies

- Generator, transporters, and TSDf all keep a copy
- A copy must be sent to DTSC within 30 days of shipment
 - DTSC no longer receives copy from TSDf



Fees – Fiscal Year 2022/2023

Manifest Submission Type	Fee per Manifest
Scanned Image Upload	\$20.00
Data + Image Upload	\$13.00
Electronic Manifest (Fully Electronic and Hybrid)	\$8.00



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Who is Responsible for Content?

- Generator
 - Transporters
 - TSDFs
 - Brokers



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E-Manifest

www.rcrainfo.epa.gov



RCRAInfo (Pre-Production)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The system enables cradle-to-grave waste tracking of many types of information regarding the regulated universe of RCRA hazardous waste handlers. RCRAInfo characterizes facility status, regulated activities, and compliance histories in addition to capturing detailed data on the generation of hazardous waste from large quantity generators and on waste management practices from treatment, storage, and disposal facilities.

RCRAInfo Sign In

Sign in

[Register](#)

[Forgot password?](#)

The Manifest

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TXR147852369	2	800-555-5555	012345678ELC
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)		
Miracle Max's Apothecary 100 Thieves Forest, Guilder, TX Generator's Phone: 908-999-5656				
6. Transporter 1 Company Name		U.S. EPA ID Number		
Humperdink's Hauling		NJR123456789		
7. Transporter 2 Company Name		U.S. EPA ID Number		
8. Designated Facility Name and Site Address		U.S. EPA ID Number		
Wesley's Waste TSDF 234 Buttercup Lane, Floren, CA Facility's Phone: 201-555-6363		CAD987654321		



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9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
X	1. UN 1090, waste acetone, 3, PG II
X	2. UN 1114, waste benzene, 3, PGII
X	3. UN1823, Sodium hydroxide, solid, 8, II
	4. Drilling mud, non-RCRA hazardous waste solid



DOT Basic Description

Identification number

Shipping name

Hazard class division or number

Packing Group (if any)

Sym-bols	Hazardous Materials Descriptions and Proper Shipping Names	Hazard Class or Division	Identifi-cation Nos.	PG
(1)	(2)	(3)	(4)	(5)
	Acetone	3	UN1090	II
	Aerosols, flammable (each not exceeding 1 L capacity)	2.1	UN1950	
	Alcohols, n.o.s.	3	UN1987	I II III

Examples

- UN 1090, Waste Acetone, 3, II
- UN 1098, Waste Allyl alcohol, 6.1 (3), I



DOT Basic Description

“...the basic description ...must be shown in sequence with no additional information interspersed”



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Generic Names

- “G” in column 1
 - Add technical name(s) in parentheses
 - Chemical/microbiological name
 - Indicative of hazard
 - At least two if ≥ 2
 - Between PSN & hazard class, or at end

Symbols	Hazardous Materials Descriptions and Proper Shipping Names
(1)	(2)
G	Flammable liquids, n.o.s.



Examples

UN 1760, waste corrosive liquids, n.o.s., ([octanoyl chloride](#)), 8, II

UN1993, waste flammable liquids, n.o.s., 3, II, ([acetone, ethanol](#))

NA3082, hazardous waste, liquid, n.o.s., 9, III, ([D008](#))

NA3082, hazardous waste, liquid, n.o.s., 9, III, ([Lead](#))



Hazardous substance 49 CFR 172.101, Apx. A and 40 CFR 302.3	Reportable quantity (RQ) lb (kg)
Acetic acid, ethyl ester	5000 (2270)
Acetic acid, fluoro-, sodium salt	10 (4.54)
Acetic acid, lead(2+) salt	10 (4.54)
Acetic acid, thallium(1+) salt	100 (45.4)
Acetic acid, (2,4,5-trichlorophenoxy)-	1000 (454)
Acetic anhydride	5000 (2270)
Acetone	5000 (2270)
Aldicarb	1 (0.454)
Aldicarb sulfone	100 (45.4)
Aldrin	1 (0.454)

Hazardous Substance

- Add “RQ”
 - Non-bulk package near PSN
 - Manifest before/after basic description, or HM column
- Technical names for RQ if not in PSN
 - At least 2 if applicable
 - Two with lowest RQs
 - EPA waste numbers



Examples

RQ, UN 1098, waste allyl alcohol, 6.1, I, (D001)

UN 1098, waste allyl alcohol, 6.1, I, RQ (D001, D008)

UN 1098, waste allyl alcohol, 6.1, I, RQ (D008)

RQ, UN 1098, waste allyl alcohol, 6.1, I, (Lead)



10. Containers		11. Total Quantity	Code	Type of container
No.	Type			
2	DM		DM	Metal drums, barrels, kegs
			DW	Wooden drums, barrels, kegs
			DF	Fiberboard, or plastic drums, barrels, kegs
			TP	Portable tanks
			TT	Cargo tanks (tank trucks)
			TC	Tank cars
			DT	Dump trucks
			CY	Cylinders
			CM	Metal boxes, cartons, cases (including roll-offs)
			CW	Wooden boxes, cartons, cases
			CF	Fiber or plastic boxes, cartons, cases
			BA	Burlap, cloth, paper, or plastic



Code	Unit of Measure
G	Gallons (liquids only)
P	Pounds
T	Tons (2,000 pounds)
Y	Cubic yards
L	Liters (Liquids only)
K	Kilograms
M	Metric tons (1,000 kilograms)
N	Cubic meters

Type	11. Total Quantity	12. Unit Wt./Vol.
DM	110	G



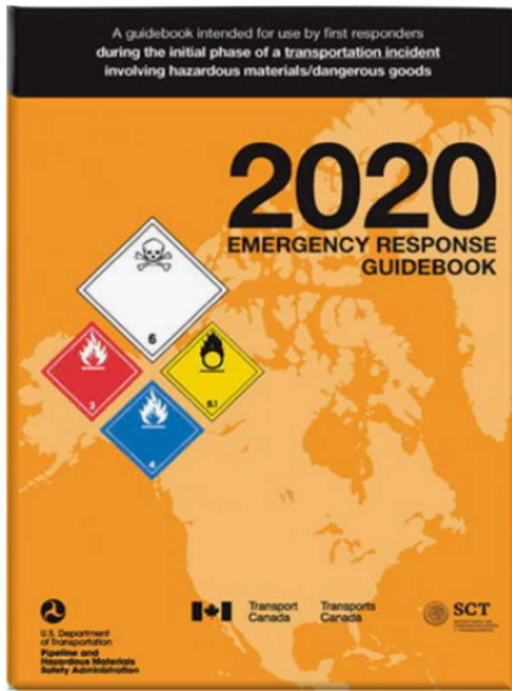
11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		FO03	FO05	D018
		D001	213	



Box 14

14. Special Handling Instructions and Additional Information

ERG 127



Chemical Name	ID No.	Guide No.	(TIH) or Dangerous Water-Reactive Materials
AC	1051	117	TIH
Accumulators, pressurized, pneumatic or hydraulic	1956	126	
Acetal	1088	127	
Acetaldehyde	1089	129	
Acetaldehyde ammonia	1841	171	
Acetaldehyde oxime	2332	129	
Acetic acid, glacial	2789	132	
Acetic acid, solution, more than 10% but not more than 80% acid	2790	153	
Acetic acid, solution, more than 80% acid	2789	132	
Acetic anhydride	1715	137	
Acetone	1090	127	

<p>15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>				
Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Inigo Montoya	<i>Inigo Montoya</i>	01	15	22

15. GENERATOR' S/OFFEROR' S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.



Transporter Confirmation

TRANSPORTER INT'L	16. International Shipments		<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____				
	Transporter signature (for exports only):		Date leaving U.S.: _____						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name				Signature		Month	Day	Year
	Count Rugen				Count Rugen		03	15	22
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year	



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Discrepancies

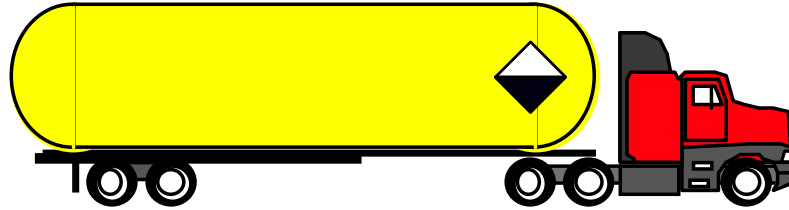
SIGNATED FACILITY	TR					
	18. Discrepancy					
	18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection	
	18b. Alternate Facility (or Generator)	Manifest Reference Number:		U.S. EPA ID Number		
	Facility's Phone:					
18c. Signature of Alternate Facility (or Generator)				Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						



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Bulk Waste

Variations > 10% by weight

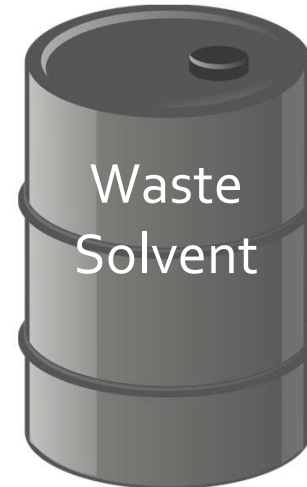


Piece Count

Any variation in piece count

Waste Type

Differences that can be discovered by inspection or analysis

A detailed hazardous waste manifest form. The form contains various fields for identification, description, and tracking of hazardous waste. The words "Waste Acid" are written in large blue letters across the middle of the form.

Significant Discrepancies

- TSDf contacts generator
 - Resolve within **15 days**
 - If not, submit report to DTSC
- Hazardous waste of concern
 - Resolve within **24 hours**
 - If not, submit report to DTSC
 - Follow up report within **5 days**



Boxes 19 - 20

DESIGNA	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
	1. H020	2. H061	3.	4.
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a			
	Printed/Typed Name Vizzini	Signature Vizzini	Month 03	Day Year 20 22



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Management Method Codes

Code	Management Method Code Group
Reclamation and Recovery	
H010	Metals recovery including retorting, smelting, chemical, etc.
H020	Solvents recovery (distillation, extraction, etc)
H039	Other recovery or reclamation for reuse including acid regeneration, organics recovery, etc. (specify in comments)
H050	Energy recovery at this site - used as fuel (includes on-site fuel blending before energy recovery; report only this code)
H061	Fuel blending prior to energy recovery at another site (waste generated either on site or received from off site)
Destruction or Treatment Prior to Disposal at Another Site	
H040	Incineration - thermal destruction other than use as a fuel (includes any preparation prior to burning)
H071	Chemical reduction with or without precipitation (includes any preparation or final processes for consolidation of residuals)
H073	Cyanide destruction with or without precipitation (includes any preparation or final processes for consolidation of residuals)

Exception Reports

- LQGs
 - Contact after 35 days
 - Exception report after 45 days
- SQGs
 - Exception report after 60 days



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Emergency Response Information

Please print or type. (Form designed for use on title 12-04(h) typewriter.) Form Approved OMB No. 2050-0039

1. Generator's Name and Mailing Address
2. Page 1 of 3
3. Emergency Response Phone
4. Manifest Tracking Number

5. Generator's Name and Mailing Address
6. Generator's Phone
7. Transporter 1 Company Name
8. Designated Facility Name and Site Address

9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
10. Containers
11. Total Quantity
12. Unit
13. Waste Codes

14. Special Handling Instructions and Additional Information
ERG 127

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/signed, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste identification statement identified in 40 CFR 262.27(a) (if from a large quantity generator) or (b) (if from a small quantity generator) is true.

16. International Shipments
17. Transporter Acknowledgment of Receipt of Materials

18. Discrepancy
19. Alternate Facility (or Generator)

20. Designated Facility Owner or Operator

EPA Form 8700-22 (Rev. 2-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

- Emergency response telephone number
- Emergency response information

FOR CHEMICAL EMERGENCY
Spill, Leak, Exposure or Accident
CALL CHEMTREC DAY OR NIGHT
800-424-9300



Emergency Response Information

- Provided and maintained throughout transportation
- Does not apply
 - Hazmat where no shipping paper is required



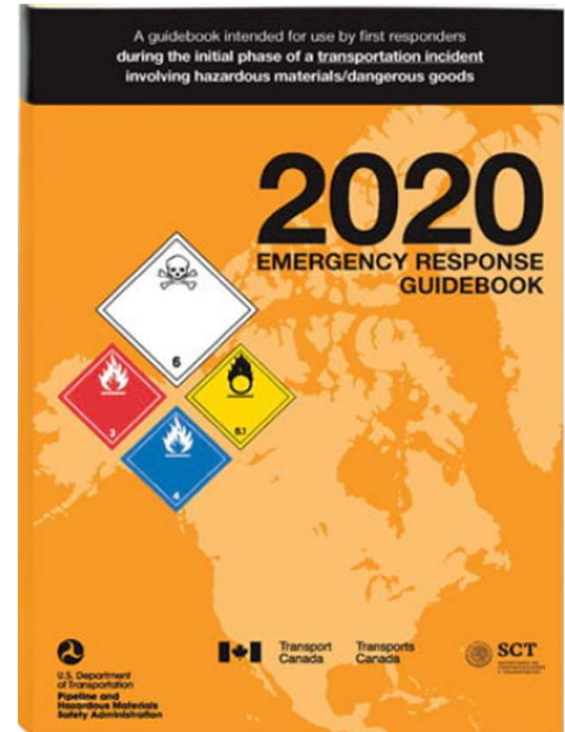
Emergency Response Information

- Hazmat basic description
- Technical names
- Immediate health hazards
- Fire or explosion risks
- Accident or incident immediate precautions
- Immediate fire response
- Initial spill or leak methods
- First-aid measures



Emergency Response Information

- Present by one of following formats
 - Shipping paper
 - Other document (e.g., SDS)
 - Cross-reference document (e.g., ERG)



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Emergency Response Information

- Telephone number
 - On shipping paper
 - After basic description, or
 - Prominent, clearly visible location



Retention

- Retain for three years



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Training

- RCRA
 - Depends on generator status
- DOT
 - Personnel who could directly affect safety of transportation



Can You Find the Mistakes?

8. Designated Facility Name and Site Address		U.S. EPA ID Number						
Facility's Name: Micro nutrients 1550 Research Way Indianapolis, IN 46231		U.S. EPA ID Number						
Facility's Phone: (317) 486-5880								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN 3216, Waste Corrosive Liquid, Basic, Inorganic, N.O.S. (Copper Tetramine Dichloride) 8, PG-II, (D004) R2	19	DF	10,001	P	D002	D004	D010

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC NOS UN/NAH: UN3244 PG II, 8	3	TP	575	G	D002		
	2.					D007		

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RO, UN1958, WASTE AEROSOLS, 2.1, PGII, (D001), ERG #120	001	DM	00150	P	D001		



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Can You Find the Mistakes

GENE	M	2 RQ, UN1325, Flammable Solids, Organic, n.o.s., 4.1, PGIII, Toluene, Xylene, ERG#133 (Texas Universal Waste)	01	DM	30	G	UNIV	409H	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1 RQ, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S. (XYLENE), 3, PGIII (D001)	XX1	DF	XXx5	G	D001		
	2							

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, (METAL / STEEL HOUSING), 9, PG III (PCB)	1	CA	227	K			

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN1993, RQ, Waste Flammable liquids, n.o.s., (Paint, Methyl Ethyl Ketone) 3, II, (RQ=100lbs), ERG# 128	01	DM	30	P	D001	D035	
X	2. NA3077, RQ, Hazardous waste, solid, n.o.s., (Crushed Fluorescent Bulbs Containing Mercury) 9, III, (RQ=1lbs), ERG# 171	01	DF	5	P	D008		



Can You Find the Mistakes?

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
	1X UN2794, BATTERIES, WET, FILLED WITH ACID, 8, (UNIVERSAL WASTES)	02	DF	240		P	D015		
	2X WASTE UN1203, GASOLINE, 3, PG II	01	DM	200		P	D001 D018 D115		

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
	1. Hydrochloric Acid - Corrosive Product HAZ Class 8 Packing Grp 2 UN1789 ^{debris}	1	DF	100	lbs.				

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	1. Damaged Containers of Sodium Hydroxide, UN3262, Corrosive Solid Basic Inorganic NOS (Sodium Hydroxide) 8 Pcell	2	DF	55	G		R001		

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN 1263, Waste Paint related material, 3, II RQ F003 F005 D001	16	DM	8000	P	F003 F005 D001		
	2.					D018 D035		



Can You Find the Mistakes?

7	UN2813, Water Reactive Solid, N.O.S., (contains powder metals), CLASS 4.3, PG III, (D005), PG	LD2C	DM	14539	P	D005		
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9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN1263, Waste Paint Universal Waste - Paint .3, PG II, (BRG#=128)	1	DM	440	P	D001		
							UNIV	209H

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RC, UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, PG III, (HEPTANE, ISOPROPYL ALCOHOL)	4	DM	220	G	D001	D018	F003
	2. WASTE NON-HAZARDOUS LIQUIDS	3	DM	165	G			
X	3. RC, UN2924, WASTE CORROSIVE LIQUID, SODIUM HYDROXIDE N.O.S. (HEPTANE/ISOPROPYL ALCOHOL) 3 (8) PG II	1	DM	55	G	D001	D002	
	14. Special Handling Instructions and Additional Information							



Can You Find the Mistakes?

6. Transporter 1 Company Name		U.S. EPA ID Number						
7. Transporter 2 Company Name Heritage Transporter		IND058484114						
8. Designated Facility Name and Site Address Micro nutrients 1550 Research Way Indianapolis, IN 46231		U.S. EPA ID Number						
Facility's Phone: (317) 486-5880								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	UN3266, Waste Corrosive Liquid, Basic, Inorganic, N.O.S. (Copper Tetramine Dichloride) B, PG-II, (D004)	19	DF	10,001	P	D002	D004	D010

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
	1. WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC NOS UN/NAH: UN3264 PG II, B	3	TP	575	G	D002		
	2.					D007		

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	RO, UN1950, WASTE AEROSOLS, 2.1, PGII, (D001), ERG #120	001	DM	00150	P	D001		



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Any Questions?

