

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC **Facility ID:** 3873

Reporting Period From January 1, 2025 to December 31, 2025

☒ **Annual** ☐ **Update** ☐ **Revised** ☒ **Facility Information has changed from the last submission**

Facility Identification				Owner/Operator Details	
Facility ID: 3873		Lat/Long: 41.94989/-71.2721		Name: Engineered Materials Solutions LLC	
Facility Name: Engineered Materials Solutions, LLC				Address: 39 Perry Avenue	
Maximum Occupants: 150				Attleboro, MA 02703, United States	
Physical Location: 39 Perry Avenue, Attleboro, MA 02703		Nature of Business: Clad metals		Phone: 508-342-2100 Email: solutions@emsclad.com	
County: Bristol County		NAICS Code: 331221		Parent Company Details	
Fire Department:		SIC Code:		Name: EMS Enterprise Holdings LLC	
Phone: 508-342-2100		Dun and Brad No: 002316342		Dun and Brad No: 260856732	
☒ Manned ☐ Unmanned		EIN ID(Tax Number): 26-0752055		Address: 39 Perry Avenue	
Email: solutions@emsclad.com		FTE: 187		Attleboro, MA 02703, United States	
				Phone: 508-342-2100 Email: solutions@emsclad.com	
Subject to EPCRA Section 312 (Annual Inventory)? ☒ Yes ☐ No				Tier II Information Contact	
Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)? ☒ Yes ☐ No				Name: Michael Karavolis	
Subject to Section 112r of Clean Air Act (CAA)? ☐ Yes ☒ No				Title: Safety and Health Manager	
RMP Facility ID:				Phone: 508-342-2115 24 Hr.Phone: 508-954-3490	
Subject to EPCRA Section 313 (Toxic Release Inventory - TRI)? ☒ Yes ☐ No				Email: mkaravolis@emsclad.com	
TRI Facility ID: 02703NGNRD39PER					
Mailing Address				Facility Emergency Planning Coordinator	
Company Name: Engineered Materials Solutions, LLC				Name: Michael Karavolis	
Attention: Safety and Health Manager				Title: Safety and Health Manager	
Street Address 1: 39 Perry Avenue				Phone: 508-342-2115 24 Hr.Phone: 508-954-3490	
Street Address 2:				Email: mkaravolis@emsclad.com	
City: Attleboro		State: MA			
Zip: 02703		Phone: 508-342-2100			
Country: United States					
Emergency Contacts					
Name		Title	Phone	24 Hr.Phone	Email
Michael Karavolis		Safety and Health Manager	508-342-2115	508-954-3490	mkaravolis@emsclad.com
Chuck Corneau		Facilities Manager	508-342-2275	508-202-8019	ccorneau@emsclad.com
Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 8, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.					Optional Attachments
Michael Karavolis, Safety and Health Manager		1/14/2026 1:19:05 PM	508-342-2115	Michael Karavolis	☐ Site Plan
Name and official title of owner/operator or authorized representative		Date Signed	Telephone Number	Signature	☐ Site Coordinate Abbreviations
					☐ Other Safeguard measures
					☐ Facility Emergency Response Plan

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC Facility ID: 3873

Reporting Period From January 1, 2025 to December 31, 2025

Chemical Description	Physical Hazards	Health Hazards																
Chemical ID: 275538 Check if Chemical Information is changed from the last submission: ☐ CAS #: 7647-01-0 Trade Secret: ☐ Chemical Name: HYDROCHLORIC ACID EHS: ☐ Contains EHS: ☐ Exceeds TPQ: ☐ EHS Name: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas MSDS SDS Chemical Added On: Check if the chemical is below reporting threshold: ☒	☐ Combustible dust ☒ Corrosive to metal ☐ Explosive ☐ Flammable (gases, aerosols, liquids, or solids) ☐ Gas under pressure ☐ Hazard Not Otherwise Classified (HNOC) ☐ In contact with water emits flammable gas ☐ Organic peroxide ☐ Oxidizer (liquid, solid or gas) ☐ Pyrophoric (liquid or solid) ☐ Pyrophoric gas ☐ Self-heating ☐ Self-reactive	☐ Acute toxicity (any route of exposure) ☒ Aspiration hazard ☐ Carcinogenicity ☐ Germ cell mutagenicity ☐ Hazard Not Otherwise Classified (HNOC) ☐ Reproductive toxicity ☐ Respiratory or skin sensitization ☒ Serious eye damage or eye irritation ☐ Simple asphyxiant ☒ Skin corrosion or irritation ☐ Specific target organ toxicity (single or repeated exposure)																
Inventory	Storage Codes & Location																	
Max Daily Amt (lbs): 7750 Max Daily Amt Code: 05 Avg Daily Amt (lbs): 3500 Avg Daily Amt Code: 04 Max Amt in Largest Container (lbs): No of days onsite: 365	<table border="1"> <thead> <tr> <th>Container Type</th> <th>Pressure</th> <th>Temperature</th> <th>Storage Location</th> <th>Description</th> <th>Max Amt At Location(lbs)</th> </tr> </thead> <tbody> <tr> <td>[A]Above ground tank</td> <td>[1]Ambient pressure</td> <td>[4]Ambient temperature</td> <td>At waste water treatment plant</td> <td>Tank within a containment tank</td> <td></td> </tr> </tbody> </table>	Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	At waste water treatment plant	Tank within a containment tank						
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Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC **Facility ID:** 3873

Reporting Period From January 1, 2025 to December 31, 2025

SHIPMENT DETAILS

Mode of Shipment:	Tank Trucks	Maximum Capacity Per Vessel:	7750	Carrier:	PVS Minibulk
Shipment Frequency Count:	1	Maximum Shipment Quantity at	7000	Carrier Address:	3134 Post Road, Warwick, RI
Shipment Frequency Period:	Month	One Time:			02886-
Physical State In Transit:	Liquid	Average Annual Shipment	5000	Carrier Phone:	888-711-3445
		Quantity:		Carrier 24 Hr	888-711-3445
		Routes of Travel:	Rt 95 North to Rt 123 to Engineered Materials Solutions	Phone:	

MIXTURE COMPONENTS

Chemical Name	%	CAS #	EHs	EHs Name	Max Daily Amount (lbs)	Max Daily Amount Code
Water	67	7732-18-5	☐		5192.5	05

Chemical Description	Physical Hazards	Health Hazards																
Chemical ID: 275539 Check if Chemical Information is changed from the last submission: ☐ CAS #: 1333-74-0 Trade Secret: ☐ Chemical Name: HYDROGEN, [REFRIGERATED LIQUID] EHS: ☐ Contains EHS: ☐ Exceeds TPQ: ☐ EHS Name: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas MSDS /SDS Chemical Added On: Check if the chemical is below reporting threshold: ☒	☐ Combustible dust ☐ Corrosive to metal ☐ Explosive ☒ Flammable (gases, aerosols, liquids, or solids) ☒ Gas under pressure ☐ Hazard Not Otherwise Classified (HNOC) ☐ In contact with water emits flammable gas ☐ Organic peroxide ☐ Oxidizer (liquid, solid or gas) ☐ Pyrophoric (liquid or solid) ☐ Pyrophoric gas ☐ Self-heating ☐ Self-reactive	☐ Acute toxicity (any route of exposure) ☐ Aspiration hazard ☐ Carcinogenicity ☐ Germ cell mutagenicity ☐ Hazard Not Otherwise Classified (HNOC) ☐ Reproductive toxicity ☐ Respiratory or skin sensitization ☐ Serious eye damage or eye irritation ☒ Simple asphyxiant ☐ Skin corrosion or irritation ☐ Specific target organ toxicity (single or repeated exposure)																
Inventory	Storage Codes & Location																	
Max Daily Amt (lbs): 5350 Max Daily Amt Code: 05 Avg Daily Amt (lbs): 2500 Avg Daily Amt Code: 04 Max Amt in Largest Container (lbs): 5350 No of days onsite: 365	<table border="1"> <thead> <tr> <th>Container Type</th> <th>Pressure</th> <th>Temperature</th> <th>Storage Location</th> <th>Description</th> <th>Max Amt At Location(lbs)</th> </tr> </thead> <tbody> <tr> <td>[A]Above ground tank</td> <td>[2]Greater than ambient pressure</td> <td>[7]Cryogenic conditions</td> <td>External to building</td> <td></td> <td></td> </tr> </tbody> </table>	Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)	[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	External to building							
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[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	External to building															

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC Facility ID: 3873

Reporting Period From January 1, 2025 to December 31, 2025

SHIPMENT DETAILS

Mode of Shipment:	Tank Trucks	Maximum Capacity Per Vessel:	5000	Carrier:	Messer Canada
Shipment Frequency Count:	2	Maximum Shipment Quantity at	4720	Carrier Address:	1980 Rue St.-Patrice EMagog
Shipment Frequency Period:	Month	One Time:			Quebec Canada, Magog
Physical State In Transit:	Liquid	Average Annual Shipment	2500	Carrier Phone:	800-232-4726
		Quantity:		Carrier 24 Hr	905-510-0802
		Routes of Travel:	Rt 95 to Rt 152 to Holden Street to EMS at 39 Perry Avenue	Phone:	

Chemical Description	Physical Hazards	Health Hazards															
Chemical ID: 275540 Check if Chemical Information is changed from the last submission: ☐ CAS #: 7727-37-9 Trade Secret: ☐ Chemical Name: NITROGEN, [REFRIGERATED LIQUID] EHS: ☐ Contains EHS: ☐ Exceeds TPQ: ☐ EHS Name: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas MSDS /SDS Chemical Added On: Check if the chemical is below reporting threshold: ☐	☐ Combustible dust ☐ Corrosive to metal ☐ Explosive ☐ Flammable (gases, aerosols, liquids, or solids) ☒ Gas under pressure ☐ Hazard Not Otherwise Classified (HNOC) ☐ In contact with water emits flammable gas ☐ Organic peroxide ☐ Oxidizer (liquid, solid or gas) ☐ Pyrophoric (liquid or solid) ☐ Pyrophoric gas ☐ Self-heating ☐ Self-reactive	☐ Acute toxicity (any route of exposure) ☐ Aspiration hazard ☐ Carcinogenicity ☐ Germ cell mutagenicity ☐ Hazard Not Otherwise Classified (HNOC) ☐ Reproductive toxicity ☐ Respiratory or skin sensitization ☐ Serious eye damage or eye irritation ☒ Simple asphyxiant ☐ Skin corrosion or irritation ☐ Specific target organ toxicity (single or repeated exposure)															
Inventory	Storage Codes & Location																
Max Daily Amt (lbs): 79000 Max Daily Amt Code: 09 Avg Daily Amt (lbs): 50000 Avg Daily Amt Code: 08 Max Amt in Largest Container (lbs): 79000 No of days onsite: 365	<table border="1"> <thead> <tr> <th>Container Type</th> <th>Pressure</th> <th>Temperature</th> <th>Storage Location</th> <th>Description</th> <th>Max Amt At Location(lbs)</th> </tr> </thead> <tbody> <tr> <td>[A]Above ground tank</td> <td>[2]Greater than ambient pressure</td> <td>[7]Cryogenic conditions</td> <td>Exterior to building</td> <td></td> <td></td> </tr> </tbody> </table>	Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)	[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	Exterior to building						
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[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	Exterior to building														

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC **Facility ID:** 3873
Reporting Period From January 1, 2025 to December 31, 2025

SHIPMENT DETAILS					
Mode of Shipment:	Tank Trucks	Maximum Capacity Per Vessel:	48000	Carrier:	Messer America
Shipment Frequency Count:	2	Maximum Shipment Quantity at One Time:	40000	Carrier Address:	200 Somerset Corporate Boulevard, Suite 7000, Bridgewater, NJ 08807
Shipment Frequency Period:	Week	Average Annual Shipment Quantity:	33250	Carrier Phone:	800-755-9277
Physical State In Transit:	Liquid	Routes of Travel:	Rt 95 to Rt 152 to Holden Street to 39 Perry Avenue	Carrier 24 Hr Phone:	800-232-4726

Chemical Description	Physical Hazards	Health Hazards
Chemical ID: 275541 Check if Chemical Information is changed from the last submission: ☐ CAS #: 74-98-6 Trade Secret: ☐ Chemical Name: PROPANE EHS: ☐ Contains EHS: ☐ Exceeds TPQ: ☐ EHS Name: ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☒ Gas MSDS /SDS Chemical Added On: Check if the chemical is below reporting threshold: ☒	☐ Combustible dust ☐ Corrosive to metal ☐ Explosive ☒ Flammable (gases, aerosols, liquids, or solids) ☒ Gas under pressure ☐ Hazard Not Otherwise Classified (HNOC) ☐ In contact with water emits flammable gas ☐ Organic peroxide ☐ Oxidizer (liquid, solid or gas) ☐ Pyrophoric (liquid or solid) ☐ Pyrophoric gas ☐ Self-heating ☐ Self-reactive	☐ Acute toxicity (any route of exposure) ☐ Aspiration hazard ☐ Carcinogenicity ☐ Germ cell mutagenicity ☐ Hazard Not Otherwise Classified (HNOC) ☐ Reproductive toxicity ☐ Respiratory or skin sensitization ☐ Serious eye damage or eye irritation ☒ Simple asphyxiant ☐ Skin corrosion or irritation ☐ Specific target organ toxicity (single or repeated exposure)

Inventory	Storage Codes & Location					
Max Daily Amt (lbs): 3500 Max Daily Amt Code: 04 Avg Daily Amt (lbs): 2000 Avg Daily Amt Code: 04 Max Amt in Largest Container (lbs): 3500 No of days onsite: 365	Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)
	[A]Above ground tank	[2]Greater than ambient pressure	[7]Cryogenic conditions	External to building		

SHIPMENT DETAILS					
Mode of Shipment:	Tank Trucks	Maximum Capacity Per Vessel:	2200	Carrier:	Propane Plus
Shipment Frequency Count:	1	Maximum Shipment Quantity at One Time:	2000	Carrier Address:	177 Winthrop Street, Rehoboth, MA 02769-
Shipment Frequency Period:	Week	Average Annual Shipment Quantity:	1000	Carrier Phone:	508-252-3359
Physical State In Transit:	Liquid	Routes of Travel:	Rt 118 to Rt 123 to Engineered Materials Solutions	Carrier 24 Hr Phone:	508-252-3359

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC Facility ID: 3873
Reporting Period From January 1, 2025 to December 31, 2025

Chemical Description	Physical Hazards	Health Hazards																		
Chemical ID: 275542 Check if Chemical Information is changed from the last submission: ☐ CAS #: 1310-73-2 Trade Secret: ☐ Chemical Name: SODIUM HYDROXIDE (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.) EHS: ☐ Contains EHS: ☐ Exceeds TPQ: ☐ EHS Name: ☐ Pure ☒ Mix ☐ Solid ☒ Liquid ☐ Gas MSDS SDS Chemical Added On: Check if the chemical is below reporting threshold: ☐	☐ Combustible dust ☒ Corrosive to metal ☐ Explosive ☐ Flammable (gases, aerosols, liquids, or solids) ☐ Gas under pressure ☐ Hazard Not Otherwise Classified (HNOC) ☐ In contact with water emits flammable gas ☐ Organic peroxide ☐ Oxidizer (liquid, solid or gas) ☐ Pyrophoric (liquid or solid) ☐ Pyrophoric gas ☐ Self-heating ☐ Self-reactive	☐ Acute toxicity (any route of exposure) ☐ Aspiration hazard ☐ Carcinogenicity ☐ Germ cell mutagenicity ☐ Hazard Not Otherwise Classified (HNOC) ☐ Reproductive toxicity ☐ Respiratory or skin sensitization ☒ Serious eye damage or eye irritation ☐ Simple asphyxiant ☒ Skin corrosion or irritation ☐ Specific target organ toxicity (single or repeated exposure)																		
Inventory	Storage Codes & Location																			
Max Daily Amt (lbs): 10500 Max Daily Amt Code: 06 Avg Daily Amt (lbs): 7500 Avg Daily Amt Code: 05 Max Amt in Largest Container (lbs): 10500 No of days onsite: 365	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Container Type</th> <th>Pressure</th> <th>Temperature</th> <th>Storage Location</th> <th>Description</th> <th>Max Amt At Location(lbs)</th> </tr> </thead> <tbody> <tr> <td>[A]Above ground tank</td> <td>[1]Ambient pressure</td> <td>[4]Ambient temperature</td> <td>Internally at WWT plant</td> <td>Tank within a containment tank</td> <td></td> </tr> </tbody> </table>						Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)	[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	Internally at WWT plant	Tank within a containment tank			
Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)															
[A]Above ground tank	[1]Ambient pressure	[4]Ambient temperature	Internally at WWT plant	Tank within a containment tank																
SHIPMENT DETAILS																				
Mode of Shipment: Tank Trucks Shipment Frequency Count: 1 Shipment Frequency Period: Month Physical State In Transit: Liquid	Maximum Capacity Per Vessel: 7500 Maximum Shipment Quantity at One Time: 7500 Average Annual Shipment Quantity: 5000 Routes of Travel: Rt 95 to Rt 123 to Engineered Materials Solutions	Carrier: PVS Minibulk Carrier Address: 3134 Post Road, Warwick, RI 02886- Carrier Phone: 888-711-3445 Carrier 24 Hr Phone: 888-711-3445																		
MIXTURE COMPONENTS																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Chemical Name</th> <th>%</th> <th>CAS #</th> <th>EHS</th> <th>EHS Name</th> <th>Max Daily Amount (lbs)</th> <th>Max Daily Amount Code</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>50</td> <td>7732-18-5</td> <td>☐</td> <td></td> <td>5250</td> <td>05</td> </tr> </tbody> </table>	Chemical Name	%	CAS #	EHS	EHS Name	Max Daily Amount (lbs)	Max Daily Amount Code	Water	50	7732-18-5	☐		5250	05						
Chemical Name	%	CAS #	EHS	EHS Name	Max Daily Amount (lbs)	Max Daily Amount Code														
Water	50	7732-18-5	☐		5250	05														

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC Facility ID: 3873

Reporting Period From January 1, 2025 to December 31, 2025

Chemical Description	Physical Hazards	Health Hazards																
Chemical ID: 275543 Check if Chemical Information is changed from the last submission: ☐ CAS #: 7664-93-9 Trade Secret: ☐ Chemical Name: Sulfuric acid EHS: ☒ Contains EHS: ☐ Exceeds TPQ: ☒ EHS Name: Sulfuric acid ☒ Pure ☐ Mix ☐ Solid ☒ Liquid ☐ Gas MSDS /SDS Chemical Added On: Check if the chemical is below reporting threshold: ☐	☐ Combustible dust ☒ Corrosive to metal ☐ Explosive ☐ Flammable (gases, aerosols, liquids, or solids) ☐ Gas under pressure ☐ Hazard Not Otherwise Classified (HNOC) ☐ In contact with water emits flammable gas ☐ Organic peroxide ☐ Oxidizer (liquid, solid or gas) ☐ Pyrophoric (liquid or solid) ☐ Pyrophoric gas ☐ Self-heating ☐ Self-reactive	☐ Acute toxicity (any route of exposure) ☒ Aspiration hazard ☐ Carcinogenicity ☐ Germ cell mutagenicity ☐ Hazard Not Otherwise Classified (HNOC) ☐ Reproductive toxicity ☐ Respiratory or skin sensitization ☒ Serious eye damage or eye irritation ☐ Simple asphyxiant ☒ Skin corrosion or irritation ☐ Specific target organ toxicity (single or repeated exposure)																
Inventory	Storage Codes & Location																	
Max Daily Amt (lbs): 3000 Max Daily Amt Code: 04 Avg Daily Amt (lbs): 3000 Avg Daily Amt Code: 04 Max Amt in Largest Container (lbs): 680 No of days onsite: 9	<table border="1"> <thead> <tr> <th>Container Type</th> <th>Pressure</th> <th>Temperature</th> <th>Storage Location</th> <th>Description</th> <th>Max Amt At Location(lbs)</th> </tr> </thead> <tbody> <tr> <td>[R]Other Desc: Lead acid battery</td> <td>[1]Ambient pressure</td> <td>[4]Ambient temperature</td> <td>Electric Fork Lifts</td> <td>Acid is in nine separate lead acid batteries</td> <td>3000</td> </tr> </tbody> </table>	Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)	[R]Other Desc: Lead acid battery	[1]Ambient pressure	[4]Ambient temperature	Electric Fork Lifts	Acid is in nine separate lead acid batteries	3000					
Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)													
[R]Other Desc: Lead acid battery	[1]Ambient pressure	[4]Ambient temperature	Electric Fork Lifts	Acid is in nine separate lead acid batteries	3000													
SHIPMENT DETAILS																		
Mode of Shipment: Trucks Shipment Frequency Count: 2 Shipment Frequency Period: Year Physical State In Transit: Liquid	Maximum Capacity Per Vessel: 40000 Maximum Shipment Quantity at One Time: 680 Average Annual Shipment Quantity: 680 Routes of Travel: Route 495 to Route 123 to Perry Avenue	Carrier: NITCO Carrier Address: 3 Chalet Road, Middleboro, MA 02346 Carrier Phone: 800-489-8000 Carrier 24 Hr Phone: 800-489-8000																

Tier II Emergency and Hazardous Chemical Inventory

Facility Name: Engineered Materials Solutions, LLC Facility ID: 3873
Reporting Period From January 1, 2025 to December 31, 2025

Chemical Amount Range Code & Description		
#	Code	Amount Range
1	01	[01] 0-99
2	02	[02] 100-499
3	03	[03] 500-999
4	04	[04] 1,000-4,999
5	05	[05] 5,000-9,999
6	06	[06] 10,000-24,999
7	07	[07] 25,000-49,999
8	08	[08] 50,000-74,999
9	09	[09] 75,000-99,999
10	10	[10] 100,000-499,999
11	11	[11] 500,000-999,999
12	12	[12] 1,000,000-9,999,999
13	13	[13] 10,000,000- Greater than 10 million