Facility Name: Umicore Electrical Materials USA Inc. Facility ID: 3246

Reporting Period From January 1, 2020 to December 31, 2020

Facility Discription Facility Discription Sality Discription Discription Sality Discription Sality Discription Sality Discription Sality Discription Sality Discription Dis	☑ Annual ☐ Upo	date 🗌 Revised 🗹 F	acility In	formation has cha	anged from th	ne last submiss	sion							
Pacific Name: Maximum Occupant: So	Facility Identification							Owner/Oper	ator Details					
MA	Facility Name: Maximum Occupants:	Umicore Electrical Materials US 50		-		41.947522/-71.2	265779	Address:	527 Pleasa Attleboro, I	ant St MA 02703, Unit		tin boarde	er@am umicore com	
Sint	,	MA									man. man		51@am.am.oo.o.oom	
Manned					3	331491		Name:	Umicore					
Email: terrance.mccormack@am.umicore.com FTE: 45						130711901		Address:	,		nited States			
Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)? Subject to Section 112r of Clean Air Act (CAA)? Subject to Section 112r of Clean Air Act (CAA)? Subject to Section 112r of Clean Air Act (CAA)? RMP Facility ID: Subject to EPCRA Section 313 (Toxic Release Inventory - TRI)? Facility ID: O270WMCRTC527PL Malling Address Company Name: Milling Address Company Name: Mattention: Terry McCormack Street Address 2: City: Attleboro State: MA Zip: O2703 Phone: 508-838-2080 Title: EHS Manager Phone: 508-838-2080 24 Hr.Phone: 774-218-5562 Email: Terry McCormack Title: EHS Manager Phone: 508-838-2080 24 Hr.Phone: 774-218-5562 Email: Terry McCormack Title: EHS Manager Phone: 508-838-2080 24 Hr.Phone: 774-218-5562 Email: Terry McCormack Title: EHS Manager Phone: 508-838-2080 24 Hr.Phone: 774-218-5562 Email: Terry McCormack Title: EHS Manager Phone: 508-838-2080 24 Hr.Phone: 774-218-5562 Email: Terry McCormack Title: EHS Manager Phone: 508-838-2080 Terry McCormack Title: EHS Manager Phone: 508-838-2080 Trat-218-5562 Terry McCormack Top-Indication: Terry McCormack Title: EHS Manager Terry McCormack Title: EHS Manager Terry McCormack Title: Terry McCormack Title: EHS Manager Terry McCormack Title: Terry McCormack			core.com	•	•	45		Phone:				ance.mcc	ormack@am.umicore	e.com
Subject to Section 112r of Clean Air Act (CAA)? Yes No Phone: 508-838-2080	Subject to EPCRA Sec	ction 312 (Annual Inventory)?				☑ Yes □	□ No	Tier II Inform	nation Contact					
	Subject to Emergency	Planning under Section 302 of E	PCRA (4	O CFR part 355)?		☑ Yes □	□No							
Subject to EPCRA Section 313 (Toxic Release Inventory - TRI)? TRI Facility ID: 0270WMCRTC527PL Mailing Address Umicore Electrical Materials Attention: Terry McCormack Street Address 1: 527 Pleasant St Building 11 Street Address 2:	•	r of Clean Air Act (CAA)?				☐ Yes 🔽	☑ No	Phone:	508-838-20	080			774-218-5562	
TRI Facility ID: 0270WMCRTC527PL Mailing Address Company Name: Unicore Electrical Materials Attention: Terry McCormack Street Address 1: 527 Pleasant St Building 11 Street Address 2: 527 Pleasant St Build	,	ction 313 (Toxic Release Inventor	ry - TRI)?			☑ Yes □	□ No	EIIIaII.	terrance.m	ccomackwam	.umicore.cor	11		
Company Name: Umicore Electrical Materials Attention: Terry McCormack Street Address 1: 527 Pleasant St Building 11	TRI Facility ID:	0270WMCRTC527PL												
Attention: Terry McCormack Street Address 1: 527 Pleasant St Building 11 Street Address 2:	Mailing Address							Facility Eme	ergency Planning	Coordinator				
NameTitlePhone24 Hr.PhoneEmailTerry McCormackEHS Manager508-838-2080774-218-5562terrance.mccormack@am.umicore.comRobert GallagherProduction508-838-2077508-415-1239robert.gallagher@am.umicore.comCertification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 9, 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 AttachmentsTerry McCormack, EHS Manager2/3/2021 9:04:50 AM508-838-2080Terry McCormackSite Coordinate AbbreviationsName and official title of owner/operator or authorized representativeDate SignedTelephone NumberSignatureOther Safeguard measures	Attention: Street Address 1: Street Address 2: City: Zip:	Terry McCormack 527 Pleasant St Building 11 Attleboro 02703				30		Title: Phone:	EHS Mana 508-838-20	iger 080			774-218-5562	
Terry McCormack EHS Manager Production 508-838-2080 774-218-5562 terrance.mccormack@am.umicore.com 508-838-2077 508-415-1239 robert.gallagher@am.umicore.com Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 9, 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. Terry McCormack, EHS Manager 2/3/2021 9:04:50 AM 508-838-2080 Telephone Number Signature Optional Attachments Site Plan Site Coordinate Abbreviations Other Safeguard measures	Emergency Contacts													
Robert Gallagher Production 508-838-2077 508-415-1239 robert.gallagher@am.umicore.com Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 9, 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. Terry McCormack, EHS Manager 2/3/2021 9:04:50 AM 508-838-2080 Telephone Number Signature Optional Attachments Site Plan Site Coordinate Abbreviations Other Safeguard measures	Name		Title			Phone		24	Hr.Phone	En	mail			
Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 9, 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. Terry McCormack, EHS Manager 2/3/2021 9:04:50 AM 508-838-2080 Terry McCormack Site Plan Site Coordinate Abbreviations Date Signed Telephone Number Signature Other Safeguard measures	Terry McCormack		EHS Mar	nager		508-838-2080	0	77-	4-218-5562	ter	rrance.mccoi	rmack@a	ım.umicore.com	
inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. Terry McCormack, EHS Manager Name and official title of owner/operator or authorized representative Date Signed Telephone Number Signature Site Plan Site Plan Site Coordinate Abbreviations Other Safeguard measures	Robert Gallagher		Production	on		508-838-207	7	50	8-415-1239	rol	bert.gallaghe	er@am.ur	micore.com	
Name and official title of owner/operator or authorized representative Date Signed Telephone Number Signature Other Safeguard measures										at based on my	-	Site P	<u>'lan</u>	
		0							,	mack	□	Site C	coordinate Abbreviation	ons
Facility Emergency Response Plan	Name and official title	of owner/operator or authorized r	epresenta	ative	Date Signed		Teleph	one Number	Signature			Other	Safeguard measures	3
												Facilit	y Emergency Respon	nse Plan

Chemical Description		Physical Haz	zards		Health Hazards			
Chemical ID: 179435 Check if Chemical Information is	☐ Combustible o	dust		☑ Acut	e toxicity (any ro	ute of exposure)		
Check if Chemical Information is Changed from the last submission:	☐ Corrosive to m	netal		☐ Aspi	ration hazard			
CAS #: 7440-43-9 Trade Secret:	☐ Explosive			☑ Card	cinogenicity			
Chemical Name: CADMIUM	☐ Flammable (g	ases, aerosols,	liquids, or solids)	☐ Gerr	n cell mutagenic	ity		
EHS: Contains EHS: Exceeds TPQ:	☐ Gas under pre	essure		☐ Haz	ard Not Otherwis	e Classified (HNOC)		
EHS Name:	☐ Hazard Not O	☐ Hazard Not Otherwise Classified (HNOC)						
☐ Pure ☑ Mix ☑ Solid ☐ Liquid ☐ Gas	☐ In contact with	n water emits fla	ammable gas	Res	oiratory or skin s	ensitization		
Chemical Added On:	☐ Organic perox	kide		☐ Serie	ous eye damage	or eye irritation		
Check if the chemical is below reporting threshold:	☐ Oxidizer (liqui	d, solid or gas)		☐ Simp	☐ Simple asphyxiant			
reporting threshold.	☐ Pyrophoric (lic	quid or solid)		☐ Skin	corrosion or irrita	ation		
	☐ Pyrophoric ga	s		☑ Spe	cific target organ	toxicity (single or repeated		
	☐ Self-heating			exposu	re)			
	☐ Self-reactive							
Inventory			Storage	Codes & Lo	cation			
Max Daily Amt (lbs): 1200	Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)		
Max Daily Amt Code: 04	[D]Steel drum	[1]Ambient	[4]Ambient	plant wide	plant wide	1200		
Avg Daily Amt (lbs): 900		pressure	temperature					
Avg Daily Amt Code: 03		[1]Ambient pressure	[4]Ambient temperature	plant wide				
Max Amt in Largest Container (lbs):		1.	1 *	II.	1			
No of days onsite: 365								

				SH	IIPMENT DETAILS	S						
Mode of Shipment: Shipment Frequency Count:	Trucks 1				Vessel: 2500 antity at 5000			Carrier: conway/Checon Carrier Address: 30 Larsen Way, N. Attleboro,				
Shipment Frequency Period: Physical State In Transit:	Week Solid		Average A Quantity:	Annual Shipment 2500				MA 02763- Carrier Phone: 508-809-5113 x Carrier 24 Hr 774-218-5562 x				
	Routes			Travel:	295 to 9		Phone:	Phone:				
				MIXI	URE COMPONEN	IIS						
Chemical Name % CAS #			AS#	EHS	EHS Name			Max Daily Amount (lbs)	Max Daily Amount Code			
Silver		80 74	7440-22-4					960	03			
Chen	nical Description				Physical Ha	azarde			Hoalth Hazards			
Chemical Description Chemical ID: 179430 Check if Chemical Information is changed from the last submission: CAS #: 7440-50-8 Trade Secret:			t: 🗆	Gas unde Hazard N In contact Organic p Oxidizer (ible dust to metal ele (gases, aerosole er pressure lot Otherwise Clase t with water emits foeroxide (liquid, solid or gas ic (liquid or solid) ic gas	s, liquids, or solids) sified (HNOC) flammable gas		Health Hazards ☐ 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					Storag	ge Codes &	& Location				
Max Daily Amt (lbs): 80000				Container Ty	ype Pressure	Temperature	Stora		Max Amt At			
Max Daily Amt Code: 09				[R]Other	[1]Ambient	[4]Ambient	Locati plant wice		Location(lbs) 40000			
Avg Daily Amt (lbs): 40000				Desc: stored		temperature	ľ	ľ				
Avg Daily Amt Code: 07				pallets [O]Tote bin	[1]Ambient	[4]Ambient	plant wic	le	80000			
Max Amt in Largest Container (II	os): 1000				pressure	temperature	'					
No of days onsite: 365				1								

Tier II Emergency and Hazardous Chemical Inventory Facility Name: Umicore Electrical Materials USA Inc. Facility ID: 3246 Reporting Period From January 1, 2020 to December 31, 2020

	SHIPMENT DETAILS							
Mode of Shipment:	Trucks	Maximum Capacity Per Vessel:	1000	Carrier:	AJ Oster			
Shipment Frequency Count:	1	Maximum Shipment Quantity at	5000	Carrier Address:	301 Metro Center , Warwick,			
Shipment Frequency Period:	Week	One Time:			RI 02886-			
Physical State In Transit:	Solid	Average Annual Shipment	2500	Carrier Phone:	401-736-2600 x			
		Quantity:		Carrier 24 Hr				
		Routes of Travel:	Rte 195 to Rte 95 to Rte 152 to	Phone:				
			rte 123					

Chemical Description		Physical Haz	zards		Heal	th Hazards	
Chemical ID: 179431 Check if Chemical Information is	☐ Combustible of	dust		☐ Acute toxic	city (any route	e of exposure)	
changed from the last submission:	☐ Corrosive to r	netal		☐ Aspiration	hazard		
CAS #: 1333-74-0 Trade Secret: □	☑ Explosive			☐ Carcinoge	nicity		
Chemical Name: Hydrogen	☑ Flammable (g	jases, aerosols,	liquids, or solids)	Germ cell			
EHS: Contains EHS: Exceeds TPQ:	☑ Gas under pre	essure		☐ Hazard No	ot Otherwise C	Classified (HNOC)	
EHS Name:	☐ Hazard Not O	therwise Classi	fied (HNOC)	☐ Reproduct	tive toxicity		
☑ Pure ☐ Mix ☐ Solid ☑ Liquid ☑ Gas	☐ In contact with	h water emits fla	ammable gas	☐ Respirator	ry or skin sens	sitization	
Chemical Added On:	☐ Organic perox	kide		☐ Serious ey	ye damage or	eye irritation	
Check if the chemical is below reporting threshold:	Oxidizer (liqui	d, solid or gas)		☑ Simple as	☑ Simple asphyxiant		
reporting uncorrord.	☐ Pyrophoric (lie	quid or solid)		☐ Skin corro	sion or irritation	on	
	☐ Pyrophoric ga	ıs		☐ Specific ta	arget organ to	xicity (single or repeate	ed
	☐ Self-heating			exposure)			
	☐ Self-reactive						
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 350	Container Type	Pressure	Temperature	Storage Desc Location	cription	Max Amt At Location(lbs)	
Max Daily Amt Code: 02	[P]Tank wagon	[2]Greater	[5]Greater than		c pad	350	
Avg Daily Amt (lbs): 200		than ambient pressure	ambient temperature	of building			
Avg Daily Amt Code: 02	[A]Above ground	'	[6]Less than	outside front			
Max Amt in Largest Container (lbs): 350	tank	pressure	ambient	of building on			
No of days onsite: 365			temperature but not cryogenic	pad tube trailer			

SHIPMENT DETAILS							
Trucks, Tank Trucks	Maximum Capacity Per Vessel:	350	Carrier:	Linde			
1	Maximum Shipment Quantity at	350	Carrier Address:	37 Landsbrook Rd, Acton, MA			
Month	One Time:			01720-5329			
Liquid	Average Annual Shipment	300	Carrier Phone:	978-263-3918 x			
	Quantity:		Carrier 24 Hr	800-232-4726 x			
	Routes of Travel:	Linde Acton MA, Rt1 111 to rte495 to rte95 to rte152 to rte123	Phone:				
	1 Month	Trucks, Tank Trucks Maximum Capacity Per Vessel: Maximum Shipment Quantity at One Time: Average Annual Shipment Quantity:	Trucks, Tank Trucks 1 Maximum Capacity Per Vessel: 350 Month One Time: Average Annual Shipment 300 Quantity: Routes of Travel: Linde Acton MA, Rt1 111 to rte495 to rte95 to rte152 to	Trucks, Tank Trucks 1			

Chemical Description	Physical Hazards	Health Hazards					
Chemical ID: 179432 Check if Chemical Information is changed from the last submission: CAS #: 7439-89-6 Trade Secret:	Combustible dust Corrosive to metal Explosive Flammable (gases, aerosols, liquids, or solid 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					
Inventory	Storage Codes & Location						
Max Daily Amt (lbs): 80000 Max Daily Amt Code: 09 Avg Daily Amt (lbs): 40000 Avg Daily Amt Code: 07 Max Amt in Largest Container (lbs): 1000 No of days onsite: 365	Container Type Pressure Temperatu [R]Other [1]Ambient [4]Ambient Desc: stored on pallets pressure temperature [O]Tote bin [1]Ambient [4]Ambient pressure temperature [R]Other [1]Ambient [4]Ambient Desc: stored on pallets pressure temperature	re Storage Location Plant wide Plant Wide Plant wide Plant wide Plant wide 10000					

Facility Name: Umicore Electrical Materials USA Inc. Facility ID: 3246

Reporting Period From January 1, 2020 to December 31, 2020

SHIPMENT D	ETAILS
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Mode of Shipment: Trucks Maximum Capacity Per Vessel: 1000 Carrier: XPO Logistics Maximum Shipment Quantity at 12000 Shipment Frequency Count: Carrier Address: 4000 W Lake St, Melrose Park 4

Shipment Frequency Period: Year One Time:

Physical State In Transit: Average Annual Shipment Solid 12000 Carrier Phone: 708-338-1054 x Carrier 24 Hr 800-622-1151 x

Quantity:

Routes of Travel: Precision Steel Warehouse

3500 N.Wolf Rd. Franklin Park IL locally Rte. 90 to rte 495 to rte 95 to rte 152 to rt1 123

Phone:

, IL 60160-

MIXTURE COMPONENTS

Chemical Name	%	CAS#	EHS	EHS Name	Max Daily Amount (lbs)	Max Daily Amount Code
Nickel	20	7440-02-0			16000	06
iron	95	7439-89-6			76000	09
impurities	5	N/A	\square		4000	04

Chemical D	escription		Physical Haz	ards		Health Hazards			
Chemical ID: Check if Chemical Information is	179433 □	☐ Combustible o			l	toxicity (any rou	te of exposure)		
changed from the last submission: CAS #:	7727-37-9	☐ Corrosive to n	netal		'	ation hazard			
Trade Secret:	⊓	☐ Explosive				nogenicity			
Chemical Name:	Liquid Nitrogen	☐ Flammable (g	ases, aerosols,	liquids, or solids)	☐ Germ	n cell mutagenicit	у		
EHS: Contains EHS:		☑ Gas under pre	essure		☐ Haza	rd Not Otherwise	Classified (HNOC)		
EHS Name:		☐ Hazard Not O	therwise Classi	fied (HNOC)	Repr	oductive toxicity			
☑ Pure ☐ Mix ☐ Solid ☑ Lie	☐ In contact with	n water emits fla	ımmable gas	☐ Resp	iratory or skin se	nsitization			
Chemical Added On:		☐ Organic perox	ride		☐ Serio	us eye damage d	or eye irritation		
Check if the chemical is below reporting threshold:		Oxidizer (liqui	d, solid or gas)		☐ Simp	le asphyxiant			
reporting unconcid.		☐ Pyrophoric (lic	quid or solid)		Skin	corrosion or irrita	tion		
		☐ Pyrophoric ga	S		☐ Spec	☐ Specific target organ toxicity (single or repeated			
		☐ Self-heating			exposure	∍)			
		☐ Self-reactive							
Inven	itory			Storage	Codes & Loc	ation			
Max Daily Amt (lbs): 30000		Container Type	Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)		
Max Daily Amt Code: 07		[A]Above ground	[2]Greater	[7]Cryogenic	outside front	Tank Pad	30000		
Avg Daily Amt (lbs): 20000		tank	than ambient	conditions	of building				
Avg Daily Amt Code: 06		[A]Above ground	pressure [2]Greater	[7]Cryogenic	pad at front				
Max Amt in Largest Container (lbs): 30	000	tank	than ambient	conditions	of building				
No of days onsite: 365			pressure						
		SHIPM	ENT DETAILS						
Mode of Shipment: Tank Shipment Frequency Count: 2 Shipment Frequency Period: Mon Physical State In Transit: Liqu	Maximum th One Time id Average A Quantity:	Annual Shipment	at 30000 30000		Carrier Addre Carrier Phon Carrier 24 Hi	03904- e: 207-439-2			
	Routes of	Travel:	From Kitte 152 to rte	ery ME rte 95 to rte 123	Phone:				

Chemical Description			Physical Haz	zards		Health Hazards		
Chemical ID: 179434 Check if Chemical Information is		Combusti				ute toxicity (any rou piration hazard	ute of exposure)	
changed from the last submission: CAS #: 7440-22-4		☐ Corrosive				•		
Trade Secret:		☐ Explosive			☐ Carcinogenicity			
Chemical Name: SILVER			_ : iaiiiazio (gaoco, acrocoio,qaiao, er coao)			rm cell mutagenicit	•	
EHS: Contains EHS: EX	ceeds TPQ: 🗹	= Cao anaor procesaro					e Classified (HNOC)	
EHS Name:		☐ Hazard Not Otherwise Classified (HNOC)				productive toxicity		
☐ Pure ☑ Mix ☑ Solid ☐ Liquid ☐ Gas		☐ In contact	t with water emits fla	ammable gas	☐ Re	spiratory or skin se	ensitization	
Chemical Added On:		☐ Organic p	peroxide		☐ Se	rious eye damage o	or eye irritation	
Check if the chemical is below reporting threshold:		Oxidizer ((liquid, solid or gas)		☐ Sir	nple asphyxiant		
reporting the shold.		☐ Pyrophori	ic (liquid or solid)		□sk	in corrosion or irrita	ation	
		☐ Pyrophor	ic gas		□Sp	ecific target organ t	toxicity (single or rep	eated
		☐ Self-heati	•		expos	ure)		
		☐ Self-react	=					
Inventory Storage Codes & Location								
Max Daily Amt (lbs): 40000		Container T	ype Pressure	Temperature	Storage Location	Description	Max Amt At Location(lbs)	
Max Daily Amt Code: 07		[O]Tote bin	[1]Ambient	[4]Ambient	plant wide	silver is used	20000	
Avg Daily Amt (lbs): 35000			pressure	temperature		throughout the		
Avg Daily Amt Code: 07						facility		
Max Amt in Largest Container (lbs): 2000								
No of days onsite: 365								
			IPMENT DETAILS		•			
Mode of Shipment: Trucks Shipment Frequency Count: 1		Capacity Per Shipment Qua	Vessel: 5000 antity at 5000		Carrier: Carrier Ad	Conway F dress: 9 Pruvn's	-reight Island Dr, Glens	
Shipment Frequency Period: Week	One Time:		•			Falls, NY	12801-	
Physical State In Transit: Solid	Average A Quantity:	nnual Shipme	nt 2500		Carrier Ph Carrier 24			
	Routes of	Travel:	rte 90 to r	te 495 to rte 95 to rte		ni 600-424-8	9300 X	
			152 to rte	123				
		MIXT	URE COMPONENT	S				
Chemical Name	% CAS#	EHS	EHS Name				Max Daily Amount Code	
Cadmium oxide	20 1306-19-0	Ø	Cadmium oxide		8	000	05	
CADMIUM OXIDE	20 1306-19-0						05	

		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