

# MATERIAL SAFETY DATA SHEET

Battery chargers are exempt articles and are not subject to the OSHA Hazard Communication Standard Requirement. This sheet is only provided as technical information and is referred normal use of the product in question. Zeus makes no warranty expressed or implied.

## SECTION 1 - Product and Company Identification

<b>⚡ Product Name:</b> Lithium Iron Phosphate (LifePO4) Chargers PCCG-LFP14.4V-XX	<b>Sizes:</b> N/A
<b>⚡ Company:</b> PowerCell LLC dba ZEUS Battery Products	<b>Telephone Number:</b> +1 (630) 295-6800
<b>⚡ Address:</b> 191 Covington Dr. Bloomingdale, IL 60108 USA	<b>Fax Number:</b> +1 (630) 295-6801
	<b>Date of Preparation:</b> May 18th, 2019

## SECTION 2 - Product Information

Material	Material / Total Weight	Name of Material	Chemical Name	Chemical Registration No./CAS No.	Material Weight (g)	Ingredients (%)
PCB board	7.89	EPOXY	(C <sub>11</sub> H <sub>12</sub> O <sub>3</sub> ) <sub>n</sub>	61788-97-4	0.22477	1.90%
		HEMA	C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	868-77-9	0.10647	0.90%
		titanium dioxide	H <sub>2</sub> O <sub>12</sub> Mg <sub>3</sub> Si <sub>4</sub>	14807-96-6	0.11830	1.00%
		titanium dioxide	TiO <sub>2</sub>	13463-67-7	0.05915	0.50%
		phenolic resin	C <sub>6</sub> H <sub>6</sub> O	108-95-2	4.57821	38.70%
		Fiber paper	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>	9004-34-6	5.08690	43.00%
		copper foil	Cu	7440-50-8	1.65620	14.00%
PE bag	2.63	polyethylene	C <sub>2</sub> H <sub>4</sub>	9002-88-4	3.10000	100.00%
Transformer	4.354	skeleton	Phenolic-Formaldehyde Resin	9003-35-4	0.36900	45.00%
			Wood Flour	9004-34-6	0.16400	20.00%
			Calcium Carbonate	471-34-1	0.24600	30.00%
			Hexamethylene Tetraamine	100-97-0	0.03280	4.00%
			Black Pigment	1333-86-4	0.00492	0.60%
			Phenol (C <sub>6</sub> H <sub>5</sub> OH)	108-95-2	0.00328	0.40%
		magnetic core	FeO <sub>3</sub>	1309-37-1	1.79200	70.00%
			MnO	1309-37-1	0.51200	20.00%
			ZnO	1314-13-2	0.25600	10.00%
		copper wire	Cu	7440-50-8	0.56318	97.10%
insulating resin	01330-20-07		0.01682	2.90%		

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Transformer	4.354	stitch	Cu	7440-50-8	0.11760	84.00%	
			Fe	7439-89-6	0.01330	9.50%	
			Sn	7440-31-5	0.00910	6.50%	
		TLW-B	Cu	7440-50-8	0.26970	93.00%	
			Polyethylene Terephthalate	86630-59-3	0.01450	5.00%	
			PA poly amide	187235-53-6	0.00580	2.00%	
		packaging tape	PET FILM	25038-59-9	0.02025	45.00%	
			2-EHA	29590-42-9	0.01125	25.00%	
			C <sub>11</sub> H <sub>20</sub> O <sub>2</sub>	103-11-7			
			C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	141-32-2	0.00540	12.00%	
			ZnSO <sub>4</sub>	7733-02-0	0.00270	6.00%	
			TiO <sub>2</sub>	13463-67-7	0.00090	2.00%	
			FR-308	20208-95-1	0.00441	9.80%	
			Pigment Yellow, etc.	71832-85-4	0.00009	0.20%	
			Lead-free solder article	Sn	7440-31-5	0.03200	99.99%
				Ag	7440-22-4	0.00000	0.00%
		Sb		7440-36-0	0.00000	0.00%	
		Bi		7440-69-9	0.00000	0.00%	
		Cu		7440-50-8	0.00000	0.01%	
		Pb		7439-92-1	0.00000	0.00%	
		Zn		7440-66-6	0.00000	0.00%	
		Fe		7439-89-6	0.00000	0.00%	
		Al		7429-90-5	0.00000	0.00%	
		As		7440-38-2	0.00000	0.00%	
		electric insulating oil	Cd	7440-43-9	0.00000	0.00%	
			Methyl acrylate	96-33-3	0.01013	67.50%	
			Dimethyl benzene	1330-20-7	0.00405	27.00%	
			butyl acetate	123-86-4	0.00045	3.00%	
		diluent	butan-1-ol	71-36-3	0.00030	2.00%	
			1, 2-xylene; o-xylene	95-47-6	0.00960	80.00%	
			Cyclohexanone	108-94-1	0.00060	5.00%	
		scaling powder	butyl alcohol; 1-butanol	71-36-3	0.00180	15.00%	
			Isopropanol	67-63-0	0.01091	90.90%	
			Hydrogenated rosin	65997-06-0	0.00048	4.00%	
			cyclohexanamine, hydrobromide	26227-54-3	0.00019	1.60%	
				Dipropylene glycol monomethyl ether	34590-94-8	0.00036	3.00%

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Aluminum electrolytic capacitor	0.126	Is foil	Al	7429-90-5	0.01540	99.99%
			Fe	7439-89-6	0.00000	0.00%
			Si	7440-21-3	0.00000	0.00%
			Cu	7440-50-8	0.00000	0.00%
		Guide pin	Al	7429-90-5	0.00516	30.00%
			Fe	7439-89-6	0.00843	49.00%
			Cu	7440-50-8	0.00241	14.00%
			Sn	7440-31-5	0.00120	7.00%
		Electrolyte	Ethylene glycol	107-21-1	0.00840	60.00%
			Ammonium adipate	19090-60-9	0.00560	40.00%
		Aluminum case	Al	7429-90-5	0.01577	99.82%
			Fe	7439-89-6	0.00002	0.12%
			Si	7440-21-3	0.00001	0.06%
		colloidal particle	Butyl	9010-85-9	0.00571	35.00%
			ethene, (5E)-5-ethylidenebicyclo [2.2.1] hept-2-ene, prop-1-ene	25038-36-2	0.00571	35.00%
			carbon black	1333-86-4	0.00293	18.00%
			clay	1332-58-7	0.00619	38.00%
			SiO <sub>2</sub>	14808-60-7	0.00114	7.00%
		Drivepipe	Zinc oxide	1314-13-2	0.00033	2.00%
			pet	29154-49-2	0.00954	90.00%
			Stability	31570-04-4	0.00002	0.20%
			lubricant	124-26-5	0.00002	0.15%
			pigment	1333-86-4	0.00011	1.00%
		electrolytic paper	butadiene	9003-17-2	0.00092	8.65%
			Cellulose	9004-34-6	0.01680	100.00%
		Negative Foil	Al	7429-90-5	0.01382	98.00%
			Fe	7439-89-6	0.00007	0.50%
			Si	7440-21-3	0.00003	0.20%
			Cu	7440-50-8	0.00003	0.20%
			Mn	7439-96-5	0.00016	1.10%
Printing ink	Titanium dioxide	13463-67-7	0.00006	60.00%		
	Polyester resin	109-16-0	0.00004	40.00%		
Schottky diode	Chip	Silicon	7440-21-3	0.00035	99.30%	
		Phosphorus	7723-14-0	0.00000	0.01%	
		Boron	7440-42-8	0.00000	0.01%	
		Nickel	7440-02-0	0.00000	0.07%	
	Copper wire	Iron	7739-89-6	0.00000	0.02%	
		Phosphorus	7723-14-0	0.00000	0.01%	
		Copper	7440-50-8	0.00557	99.98%	
	soldering lug	Lead	7439-92-1	0.00017	92.50%	
		Tin	7440-31-5	0.00001	5.00%	
Silver		7440-22-4	0.00000	2.50%		

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Schottky diode	0.0083	Printing ink	Polymer A	60676-86-0	0.00000	80.00%
			Polymer B	9003-35-4	0.00000	5.00%
			Pigment Al	1333-86-4	0.00000	0.50%
			Acrylic monomers	29690-82-2	0.00000	10.00%
		Tinplating	Tin	7440-31-5	0.00029	99.99%
			Lead	7439-92-1	0.00000	0.00%
			Iron	7439-89-6	0.00000	0.00%
			Copper	7440-50-8	0.00000	0.00%
		epoxy resin	Silicon dioxide	14808-60-7	0.00036	17.06%
			Quartz	7631-86-9	0.00018	8.53%
			Epoxy resin	61788-97-4	0.00012	5.80%
			FlameReterd and zb	9003-35-4	0.00005	2.39%
			Phenolic Resin	12536-65-1	0.00000	0.17%
				Carbom Black	1333-86-4	0.00000
Chip resistor	0.002	Alumina Substrate	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	0.00171	85.563%
			SiO <sub>2</sub>	14808-60-7	0.00004	1.860%
			MgO	1309-48-4	0.00002	0.974%
			CaO	1305-78-8	0.00000	0.177%
		Protective Coating (G1)	Bi <sub>2</sub> O <sub>3</sub>	1304-76-3	0.00000	0.214%
			SiO <sub>2</sub>	14808-60-7	0.00000	0.089%
			Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	0.00000	0.053%
		Protective Coating (G2)	Epoxy resin	25068-38-6	0.00001	0.664%
			Silica	60676-86-0	0.00001	0.738%
			Talcum	14807-96-6	0.00000	0.074%
		Resistive Element	RuO <sub>2</sub>	12036-10-1	0.00000	0.091%
			PbO	1317-36-8	0.00000	0.240%
			SiO <sub>2</sub>	14808-60-7	0.00000	0.096%
			B <sub>2</sub> O <sub>3</sub>	1303-86-2	0.00000	0.034%
			Al <sub>2</sub> O <sub>3</sub>	1344-28-1	0.00000	0.096%
			ZnO	1314-13-2	0.00000	0.015%
		Termination (Inner) C1	Ag	7440-22-4	0.00003	1.472%
		Termination (Inner) C2	Ag	7440-22-4	0.00001	0.491%
			Pd	7440/5/3	0.00000	0.028%
			Glass	65997-18-4	0.00000	0.084%
		Termination (Inner) C3	Ni	7440-02-0	0.00001	0.437%
			Cr	7440-47-3	0.00000	0.109%
		Termination (Between) Ni Plating	Ni	7440-02-0	0.00006	3.179%
		Termination (Outer) Sn Plating	Sn	7440-31-5	0.00006	3.130%
M/K	Epoxy resin	25068-38-6	0.00000	0.046%		
	Fillier	13463-67-7	0.00000	0.028%		
	Pigment	7727-43-7	0.00000	0.018%		

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IC	0.12	Chip	Si	7440-21-3	0.00893	7.44%
		lead	Cu	7440-50-8	0.03802	31.68%
			Fe	7439-89-6	0.00002	0.02%
			Pb	7439-92-1	0.00001	0.01%
			P	7723-14-0	0.00001	0.01%
			Ni	7440-02-0	0.00154	1.28%
			Mg	7439-95-4	0.00013	0.11%
		External lead (electroplating)	Sn	7440-31-5	0.00182	1.52%
		epoxy resin	(C <sub>6</sub> H <sub>6</sub> O • CH <sub>2</sub> O) x	9003-35-4	0.00318	2.65%
			C <sub>5</sub> H <sub>4</sub> N <sub>2</sub> O <sub>3</sub>	29690-82-2	0.00360	3.0%
		gold wire	Au	7440-57-5	0.00014	0.12%
		The model material	SiO <sub>2</sub>	60676-86-0	0.05760	48.0%
			(C <sub>8</sub> H <sub>8</sub> O <sub>2</sub> ) <sub>n</sub>	9003-35-4	0.00184	1.53%
			Bi <sub>2</sub> O <sub>3</sub>	1304-76-3	0.00065	0.54%
C <sub>11</sub> H <sub>15</sub> ClO <sub>3</sub>	29690-82-2		0.00253	2.11%		
Solid-state capacitor	0.72	anode foil	Al	7429-90-5	0.06905	9.59%
		cathod foil	Al	7429-90-5	0.05263	7.31%
		Lead	Fe	7439-89-6	0.14206	19.73%
			Cu	7440-50-8		
			Al	7429-90-5		
		Ink	resin	109-16-0	0.00360	0.50%
			Titanium Dioxide	13463-67-7		
			Cyclohexanone	108-94-1		
			Silicon dioxide	60676-86-0		
		Electrolytic Capacitor Paper	Manila Espartos	9004-34-6	0.07279	10.11%
		AL Case	Al	7929-90-5	0.08482	11.78%
			epoxide resin	14808-60-7		
		Oxidant	For toluene sulfonic acid	77214-82-5	0.00000	13.40%
		Monomer	3, 4-ethylenedioxythiophene	126213-50-1	0.00000	12.34%
Rubber Hermetic Part	Butyl rubber	68081-82-3	0.00000	15.24%		
Safety capacitor	1.4	Ceramic chip Y5V	BaTiO <sub>3</sub>	12047-27-7	1.3244	87.6%
			CaZrO <sub>3</sub>	12013-47-7		6.7%
			other 4 kinds	/		5.7%
		soldering tin	Sn	7440-31-5	0.0154	97.0%
			others	/		3.0%
		CP wire	Fe	7439-89-6	0.0392	77.5%
			Cu	7440-50-8		20.0%
			Zn	7440-31-5		2.5%
		coating materials	epoxy resin	25036-25-3	0.021	50.0%
			silica powder	14808-60-7		35.0%
			antimonous oxide	1309-64-4		5.0%
			TDE	84852-53-9		7.0%
			Pigments and additives	N/A		3.0%

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Chip capacitor	0.0032	COATER	EPOXY RESIN	25036-25-3	0.000399	13.30%
			Silicon dioxide	14808-60-7	0.000099	3.30%
		Ceramic body	BaTiO <sub>3</sub>	12047-27-7	0.0012	40.00%
		SOLDER	Sn	7440-31-5	0.000537	17.90%
			Ag	7440-22-4	0.0000141	0.47%
		ELECTRODES	Ag	7440-22-4	0.000159	5.30%
			Silicon dioxide	14808-60-7	0.0000399	1.33%
		LEAD WIRE	Fe	7439-89-6	0.000021	0.70%
			Sn	7440-31-5	0.000159	5.30%
			Cu	7740-50-8	0.000543	18.10%
Optocoupler	0.93	Lead Frame	Cu (Balance)	7740-50-8	0.3162	34.00%
			Fe	7439-89-6	0.0279	3.00%
			Zn	7440-66-6	0.00279	0.30%
			Pb	7758-97-6	0.002046	0.22%
		Plating	Sn	7440-31-5	0.00186	0.20%
			Ag	7440-22-5	0.001023	0.11%
		Wire	Au	7440-57-5	0.002046	0.22%
		Chip	Silicon (Al, Au...	7440-21-3	0.00279	0.30%
			GaAs (Al, Au...	1303-00-0	0.002976	0.32%
		Mold compound	SiO <sub>2</sub>	7440-21-3	0.558	60.00%
			Sb <sub>2</sub> O <sub>3</sub>	7440-36-0	0.00186	0.20%
		Silicon coating	Si (Compound)	7440-21-3	0.003255	0.35%
		Silver Epoxy	Ag	7440-22-4	0.004185	0.45%
Heat-shrinkable T bush	0.46	HEAT SHRINKBALE TUBE (BLACK)	(C <sub>2</sub> H <sub>4</sub> ) x. (C <sub>4</sub> H <sub>6</sub> O <sub>2</sub> ) y	24937-78-8	0.25	50.00%
			Mg (OH) 2	1309-42-8	0.2	40.00%
			P	7723-14-0	0.025	5.00%
			C <sub>73</sub> H <sub>108</sub> O <sub>12</sub>	6683-19-8	0.005	1.00%
			C <sub>24</sub> H <sub>46</sub> O <sub>7</sub>	1333-68-4	0.02	4.00%
SMT red gum	1.2	red gum	Epoxy resin	25085-99-8	0.6	50.00%
			Epoxy/amine adduct	37677-81-9	0.24	20.00%
			TALC	14807-96-6	0.24	20.00%
			Glycidyl ester	26761-45-5	0.108	9.00%
			Pigment red	7585-41-3	0.012	1.00%
Mylar	0.9	body	C <sub>9</sub> H <sub>6</sub> O <sub>4</sub> X <sub>2</sub>	25038-59-9	0.6003	66.70%
			SiO <sub>2</sub>	7631-86-9	0.1197	13.30%
			TiO <sub>2</sub>	13463-67-7	0.1197	13.30%
			BaSO <sub>4</sub>	7727-43-7	0.0603	6.70%
DC Cable	6.21	Plastic	PVC	9002-86-2	3.80052	61.2%
			DPHP	26761-40-0	0.07452	1.2%
			Sb <sub>2</sub> O <sub>3</sub>	1327-33-9	0.03726	0.6%
			CaCO <sub>3</sub>	471-34-1	0.04968	0.8%

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DC Cable	6.21	Copper head terminal	Zn	7440-66-6	0.03726	0.60%
			Cu	7440-50-8	0.19872	3.20%
			Ni	7440-02-0	0.01242	0.20%
		The tail card internal model	PBT	26062-94-2	0.09315	1.50%
		Plug internal model	PP	9008-07-0	0.09315	1.50%
		Copper conductors	Cu	7440-50-8	1.6146	26.00%
			Sn	7440-31-5	0.07452	1.20%
		Ribbon	PVC	9002-86-2	0.07452	1.20%
Shrapnel	1.21	Shrapnel	Fe	7439-89-6	0.09315	1.50%
			C	7440-44-0	0.00047795	0.04%
			Si	7440-21-3	0.0055902	0.46%
			Mn	7439-96-5	0.0126808	1.05%
			P	7439-89-6	0.0003872	0.03%
			S	7723-14-0	0.00003267	0.00%
			Cr	7704-34-9	0.219736	18.16%
			Ni	7440-47-3	0.097405	8.05%
Fe	7440-02-0	0.873741	72.21%			
Color Circle Coils	0.475	Magnetic core	Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	0.10224	63.90%
			ZnO	1314-13-2	0.0336	21.00%
			NiO	1313-99-1	0.0168	11%
			CuO	1317-38-0	0.0048	3.00%
			MgO	1309-48-4	0.00256	1.60%
		Stitch	Fe	7439-89-6	0.1008	84.00%
			Cu	7440-50-8	0.0114	9.50%
			Sn	7440-31-5	0.0078	6.50%
		Varnished wire	Cu	7440-50-8	0.09695	96.95%
			Fe	7439-89-6	0.00001	0.01%
			Pb	7439-92-1	0.00001	0.01%
			Sn	7440-31-5	0.00001	0.01%
			As	7440-38-2	0.00001	0.01%
			Ag	7440-22-4	0.00001	0.01%
			C <sub>7</sub> H <sub>8</sub> O	1319-77-3	0.001	1.00%
			C <sub>8</sub> H <sub>10</sub>	1330-20-7	0.001	1.00%
			C <sub>14</sub> H <sub>22</sub> O <sub>6</sub>	109-16-0	0.001	1.00%
			Glue	[CH (CH <sub>2</sub> Cl) CH <sub>2</sub> O] n	24969-06-0	0.00205
		C <sub>7</sub> H <sub>8</sub> O <sub>2</sub>		9003-35-4	0.0005	10.00%
		C <sub>2</sub> H <sub>4</sub> N <sub>4</sub>		461-58-5	0.0003	6.00%
		C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O		101-42-8	0.0004	8.00%
		C <sub>5</sub>		1333-86-4	0.00125	25.00%
		Al <sub>2</sub> H <sub>2</sub> O <sub>12</sub> Si <sub>4</sub>		1302-78-9	0.004965	99.30%
C <sub>15</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>	101-68-8	0.0000055		0.11%		
H <sub>3</sub> AlO <sub>3</sub>	21645-51-2	0.0000295		0.59%		

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Color Circle Coils	0.475	Pb-free solder	Sn	7440-31-5	0.004965	99.30%
			Ag	7440-22-4	0.0000055	0.11%
			Cu	7440-50-8	0.0000295	0.59%
		UV glue	UV resin	3896-11-4	0.024	60.00%
			C <sub>9</sub> H <sub>14</sub> O <sub>5</sub>	55719-33-0	0.008	20.00%
			C <sub>9</sub> H <sub>8</sub> N <sub>2</sub>	670-96-2	0.008	20.00%
		Green paint Lord	C <sub>5</sub> H <sub>6</sub> O <sub>9</sub>	25068-38-6	0.0375	75.00%
			C <sub>5</sub>	1333-86-4	0.0075	15.00%
C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	123-86-4		0.0015	3.00%		
defoamer	139-37-1		0.0035	7.00%		
Case	5.49	PC resin	4-[2-(4-Methoxyphenyl)-2-propanyl] phenyl acetate hydrochloride (1:1)	13463-67-7	6.30828	97.20%
Ethyl alcohol	1	Ethyl alcohol	ethyl alcohol	64-17-5	0.995	99.50%
			acetaldehyde	75-07-0	0.0005	0.05%
			isobutanol	78-83-1	0.001	0.10%
			acetic acid	64-19-7	0.001	0.10%
			ethyl ester	139481-41-7	0.0025	0.25%
Scaling powder	2.5	Scaling powder	natural resin	8050-9-7	0.0925	3.70%
			Stearic acid resin	123-95-5	0.05075	2.03%
			synthetic resin	8050-31-5	0.05175	2.07%
			activator	111-87-5	0.01775	0.71%
			Carboxy acid	68937-72-4	0.046	1.84%
			Mixed alcohol solvent	67-63-0	2.17625	87.05%
			Anti-evaporant	15892-23-6	0.065	2.60%
Flame retardant Vulcanized silicone rubber	4.2	Heat dissipation silica gel	HPDMS	70131-67-8	1.4532	34.6%
			titanium dioxide	13463-67-7	0.126	3.0%
			calcium carbonate	471-34-1	1.092	26.0%
			aluminium hydroxide	21645-51-2	1.3188	31.4%
			ethyl acetoacetate	27858-32-8	0.126	3.0%
			MTMS	1185-55-3	0.084	2.0%
Machine cleaner	3	Machine cleaner	naphtha	8030-30-6	2.949	98.30%
			mineral wax	8002-74-2	0.039	1.30%
			others	N/A	0.012	0.40%
Tin bar	10	Tin	Tin	7440-31-5	9.97	99.70%
			Silver	7440-22-4	0.03	0.30%
Solder	5	Solder	Tin	7440-31-5	4.965	99.30%
			copper	7440-50-8	0.035	0.70%



**SECTION 3 - Harmfulness Overview**

Health hazard:	NO
Environmental implication:	NO
Physical and chemical hazards:	NO
Special hazards:	NO

**SECTION 4 - Emergency Treatment**

Inhalation:	N/A
Skin exposure:	No effect, wash hands in time
Eye contact:	N/A
Ingestion:	Seek immediate medical assistance
The most important symptoms and harmful effects:	Discards can have an impact on the environment, rivers and oceans
Protection of first responders:	Follow the normal procedure

**SECTION 5 - Fire Extinguishing Measures**

Suitable for fire extinguishing agent:	Carbon dioxide / dry powder extinguisher
Special hazards that may occur during fire fighting:	Prevent inhalation of gas and smoke
Special extinguishing procedure:	Fire fighting personnel should be equipped with high temperature suit, suitable for extinguishing agent
Special protective equipment for fire personnel:	Follow the normal procedure

**SECTION 6 - Leak Treatment**

Personal notes:	N/A
Environmental considerations:	N/A
Cleaning method:	N/A

**SECTION 7 - Safe Disposal Method**

Disposition  
Prevent contact with open flames, sparks and ignition sources  
Stockpile  
Store in a cool, dry and well ventilated warehouse  
Keep away from fire and heat source

**SECTION 8 - Exposure Prevention**

Engineering control: No need  
Controls parameter: Eight-hour daily mean admissible concentration/short-time mean admissible concentration/maximum admissible concentration:  
Not Applicable

**Personal Safety Equipment**

Breath protection: No need  
Hand protection: No need  
Eye protection: No need  
Skin and body protection: No need  
Sanitary measure: No need

**SECTION 9 - Physical and Chemical Properties**

Physical	Solid	Shape	Rectangle
Color	Black	Smell	No
PH	7	Flash Point	N/A
Decomposition Temperature	> 500°C	Vapor Density	N/A
Vapor Pressure	N/A	Solubility	Insoluble in water

**SECTION 10 - Stability and Reactivity**

Stability: Good  
Possible hazardous reactions under special conditions: High temperature incineration may contain HCl gases  
Conditions to be avoided: Avoid long-term storage in high temperature and humidity environment, and avoid overloading  
Substances to be avoided: Acid-base  
Hazardous decomposed matter: HCl, copper compound, oxycarbide

**SECTION 11 - Toxicity Data**

Urgent toxicity:	No
Local effect:	No
Sensitivity:	No
Slow toxicity or long-term toxicity:	No
Special effects:	High temperature incineration will have HCl gas

**SECTION 12 - Ecological Data**

Possible environmental impacts:  
This product is not biodegradable but can be recycled in a suitable way

**SECTION 13 - Disposal Method of Waste**

Waste disposal method: Dispose according to the local waste related laws and regulations

**SECTION 14 - Delivery Information**

International transport regulations:	Transportation of general goods
United Nations number:	No
No other special means of transport	

**SECTION 15 - Regulatory Information**

Solid waste pollution prevention and control law environmental protection act  
General cargo transportation regulations

**SECTION 16 - Other Information**

If you need further information, please contact a Zeus sales representative.