



SAFETY DATA SHEET

SECTION 1 — CHEMICAL AND COMPANY IDENTIFICATION

IDENTITY HgX Mercury Decontaminant Powder	DATE PREPARED 10/30/2017	
CHEMICAL FAMILY Mixture	USE Decontaminating fine residue of mercury Recommended restrictions: None known.	
SUPPLIER'S NAME Acton Technologies, Inc.	EMERGENCY TELEPHONE NUMBER CHEMTREC: 1-800-424-9300 (Within Continental U.S.) CHEMTREC: 1-703-527-3887 (Outside U.S.)	
 ACTON TECHNOLOGIES		
 ISO 9001:2015 <small>Certification #110102.01</small> ISO 14001:2015 <small>Certification #140102.01</small> 		
AN ISO 9001 CERTIFIED COMPANY AN ISO 14001 CERTIFIED COMPANY		
NORTH AMERICAN OPERATIONS	EUROPEAN OPERATIONS	
100 THOMPSON STREET ■ P.O. BOX 726 PITTSBURGH, PENNSYLVANIA ■ 15106 ■ USA PHONE: 724.654.0612 FAX: 724.654.2810	ADARE ■ COUNTY LIMERICK IRELAND PHONE: +353.61.395.222 FAX: +353.61.395.333	VIA CARLO CATTANEO n° 76 ■ 25121 BRESCIA ■ ITALY PHONE: +39.030.2752447 FAX: +39.030.2750939
		ONLINE ORDERING: WWW.ACTONTECH.COM

SECTION 2 — HAZARDS IDENTIFICATION

CLASSIFICATION:	<i>Classification of the chemical:</i> White granules or powder. Odorless. This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
SINGLE WORD:	Not required
HAZARD STATEMENT(S):	Not required
PRECAUTIONARY STATEMENT(S):	Not required
OTHER HAZARDS:	Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. May cause eye irritation.

**SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	COMMON NAMES AND SYNONYMS	CAS #	WT. %
Ethylenediamine-tetraacetic acid (EDTA)	EDTA	60-00-4	5.0 - 10.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4 — FIRST AID MEASURES

INHALATION:	If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.
SKIN CONTACT:	Wash with water and soap as a precaution. If irritation or symptoms develop, seek medical attention.
EYE CONTACT:	Flush with large amounts of water for 15 minutes. If irritation persists, seek prompt medical attention.
INGESTION:	Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Call a physician.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	Direct contact with eyes may cause temporary irritation. Symptoms may include tearing, redness and discomfort. Direct skin contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:	Treat symptomatically.

SECTION 5 — FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use a solid water stream as it may scatter and spread fire.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE / CONDITIONS OF FLAMMABILITY:	Burning may produce irritating, toxic and obnoxious fumes.
FLAMMABILITY CLASSIFICATION (OSHA 29 CFR 1910.106)	Not flammable.
HAZARDOUS COMBUSTION PRODUCTS:	Sodium oxides.
PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
SPECIAL FIRE-FIGHTING PROCEDURES:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.



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SECTION 6 — ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.
ENVIRONMENTAL PRECAUTIONS:	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.
METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:	Stop spill or leak at source if safely possible. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.
SPECIAL SPILL RESPONSE PROCEDURES:	Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements. US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7 — HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid contact with eyes, skin and clothing. Avoid breathing dust and fume. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.
CONDITIONS FOR SAFE STORAGE:	Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
INCOMPATIBLE MATERIALS:	Oxidizing agents; Acids

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS:	CHEMICAL NAME	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
	Ethylenediamine-tetraacetic acid (EDTA)	N/Av	N/Av	N/Av	N/Av
VENTILATION AND ENGINEERING MEASURES:	Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.				
RESPIRATORY PROTECTION:	If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. In case of insufficient ventilation wear suitable respiratory equipment. Advice should be sought from respiratory protection specialists.				
SKIN PROTECTION:	Wear protective gloves. Advice should be sought from glove suppliers.				
EYE / FACE PROTECTION:	Wear eye/face protection. Safety glasses with side-shields or chemical splash goggles, depending on workplace standards.				
OTHER PROTECTIVE EQUIPMENT:	Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.				
GENERAL HYGIENE CONSIDERATIONS:	Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Handle in accordance with good industrial hygiene and safety practice.				



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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	White granules or powder.	pH	Not available.
Odor	Odorless	Odor threshold	N/Av
Initial Boiling point and Boiling Range	Not available.	Relative Density/Specific gravity	> 1
Melting/Freezing point	Not available.	Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	N/Av
Vapor pressure	Not available.	Solubility in water	Soluble.
Vapor density	Not available.	Other Solubility(ies)	Not available.
Volatile organic Compounds (VOC's)	N/Av	Evaporation rate (BuAe = 1)	Not available.
Decomposition Temperature	Not available.	Volatiles (% by weight)	Not available.
Flame Projection Length	N/Av	Auto ignition temperature	Not applicable.
Flash point	Not applicable. (Does not burn)	Flammability (Solid/Gas)	Not applicable.
Flash point (Method)	N/Av	Lower flammable limit (% by vol.)	N/Av
Oxidizing properties	Not applicable.	Upper flammable limit (% by vol.)	N/Av
Viscosity	Not available.	Explosive properties	Not applicable.
Other physical/chemical properties	None known or reported by the manufacturer.	Absolute pressure of container	N/Av

SECTION 10 — STABILITY AND REACTIVITY	
REACTIVITY:	This product is not reactive.
CHEMICAL STABILITY:	Material is stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTION:	No dangerous reaction known under conditions of normal use.
CONDITIONS TO AVOID:	Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid dust formation. Extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS:	See Section 7 (Handling and Storage) for further details.
HAZARDOUS DECOMPOSITION PRODUCTS:	None known, refer to hazardous combustion products in Section 5.

SECTION 11 — TOXICOLOGICAL INFORMATION	
ROUTES OF EXPOSURE:	Inhalation: <i>YES</i> Skin Absorption: <i>NO</i> Skin & Eyes: <i>YES</i> Ingestion: <i>YES</i>
POTENTIAL HEALTH EFFECTS (ACUTE)	
Inhalation:	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin:	Direct skin contact may cause temporary redness.
Eyes:	Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.
POTENTIAL HEALTH EFFECTS (CHRONIC)	
	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.



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SECTION 11 — TOXICOLOGICAL INFORMATION (CONTINUED)

MUTAGENICITY:	Not expected to be mutagenic in humans.
CARCINOGENICITY:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
REPRODUCTIVE EFFECTS & TERATOGENICITY:	Not expected to cause reproductive effects.
SENSITIZATION TO MATERIAL:	Not expected to be a skin or respiratory sensitizer.
SPECIFIC TARGET ORGAN EFFECTS:	This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:	None known.
SYNERGISTIC MATERIALS:	Not available.
TOXICOLOGICAL DATA:	See below for individual ingredient acute toxicity data.

Ingredients	LC ₅₀ (4hr)	LD ₅₀	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Ethylenediamine-tetraacetic acid (EDTA)	N/Av	4500 mg/kg	N/Av

OTHER IMPORTANT HAZARDS:	None known or reported by the manufacturer.
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SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICITY:	Not classified for hazards to the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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ECOTOXICITY DATA:

Ingredients	CAS No	Toxicity to Fish		
		LC ₅₀ / 96h	NOEC / 21 day	M Factor
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4	>41mg/L (Bluegill sunfish)	N/Av	None

Ingredients	CAS No	Toxicity to Daphnia		
		EC ₅₀ / 48h	NOEC / 21 day	M Factor
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4	140mg/L (Daphnia magna)	N/Av	None

Ingredients	CAS No	Toxicity to Algae		
		EC ₅₀ / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4	>100mg/L (Green algae)	N/Av	None



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SECTION 12 — ECOLOGICAL INFORMATION (CONTINUED)

PERSISTENCE AND DEGRADABILITY:	No data is available on the product itself.
BIOACCUMULATION POTENTIAL:	No data is available on the product itself.



Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Ethylenediamine-tetraacetic acid (EDTA) (CAS 60-00-4)	N/Av	N/Av

MOBILITY IN SOIL:	No data is available on the product itself.
OTHER ADVERSE ENVIRONMENTAL EFFECTS:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 — DISPOSAL CONSIDERATIONS

HANDLING FOR DISPOSAL:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
METHODS OF DISPOSAL:	Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 — TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	UN PROPER SHIPPING NAME	TRANSPORT HAZARD CLASS(ES)	PACKING GROUP	LABEL
49CFR/DOT	None.	Not regulated.	Not regulated.	None.	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	Not regulated.	None.	
TDG Additional information	None.				
SPECIAL PRECAUTIONS FOR USER:	None known or reported by the manufacturer.				
ENVIRONMENTAL HAZARDS:	See ECOLOGICAL INFORMATION, Section 12.				
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:	This substance/mixture is not intended to be transported in bulk.				



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SECTION 15 — REGULATORY INFORMATION									
US FEDERAL INFORMATION:			Components listed below are present on the following U.S. Federal chemical lists:						
Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302)	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical				
					Toxic Chemical	de minimus Concentration			
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4	Yes	5000 lb/ 2270 kg	N/Av	No	N/Av			
SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.									
US STATE RIGHT TO KNOW LAWS:			The following chemicals are specifically listed by individual States:						
Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4	No	N/Av	Yes	Yes	No	Yes	Yes	No
CANADIAN INFORMATION:			WHMIS information: Refer to Section 2 for a WHMIS Classification for this product. Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).						
INTERNATIONAL INFORMATION:			Components listed below are present on the following International Inventory list:						
Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC	
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4	200-449-4	Present	Present	(2)-1296; (2)-1263	KE-13648	Present	HSR003060	



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SECTION 16 — OTHER INFORMATION

LEGEND:	ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose MN: Minnesota N/Ap: Not Applicable N/Av: Not Available NFPA: National Fire Protection Association	NIOSH: National Institute of Occupational Safety and Health NJ: New Jersey NTP: National Toxicology Program OECD: Organisation for Economic Cooperation and Development OSHA: Occupational Safety and Health Administration PA: Pennsylvania PEL: Permissible exposure limit RCRA: Resource Conservation and Recovery Act RI: Rhode Island RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System
REFERENCES:	<ol style="list-style-type: none"> 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016 2. International Agency for Research on Cancer Monographs, searched 2017 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2017(Chempendium, HSDB and RTECs). 4. Material Safety Data Sheets from manufacturer. 5. US EPA Title III List of Lists - 2017 version. 6. California Proposition 65 List - 2017 version. 7. OECD - The Global 	
PREPARATION DATE:	10/30/2017	
OTHER SPECIAL CONSIDERATIONS FOR HANDLING:	Provide adequate information, instruction and training for operators.	

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