

SAFETY DATA SHEET

MICROGENICS

Part of Thermo Fisher Scientific

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

COMPANY/UNDERTAKING			
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Product identifier	CEDIA Drugs of Abuse Urine Calibrato	ors and Controls	
Synonyms	 1815326 CEDIA[®] Multi-Drug Calibrator, Primary Cutoffs 1815334 CEDIA[®] Multi-Drug Calibrator, Primary Cutoffs 1730428 CEDIA[®] Multi-Drug Calibrator, Secondary Cutoffs 1730517 CEDIA[®] Multi-Drug Calibrator, Secondary Cutoffs 1730380 CEDIA[®] Multi-Drug Calibrator, Secondary Cutoffs 1730380 CEDIA[®] Multi-Drug Intermediate Calibrator 1732218 CEDIA[®] Multi-Drug Intermediate Calibrator 1730398 CEDIA[®] Multi-Drug High Calibrator 1732226 CEDIA[®] Multi-Drug High Calibrator 1730401 CEDIA[®] Multi-Drug Calibrator, Primary Clinical Cutoffs 100033 CEDIA[®] Multi-Drug Calibrator, Optional 1868934 CEDIA[®] Multi-Drug Calibrator 1557416 CEDIA[®] Negative Calibrator 1557530 CEDIA[®] THC 25 Calibrator 1557530 CEDIA[®] THC 100 Calibrator 1557548 CEDIA[®] THC 150 Calibrator 1661086 CEDIA[®] THC 150 Control Set 1661060 CEDIA[®] THC 100 Control Set 1661060 CEDIA[®] THC 100 Control Set 100069 CEDIA[®] MultiDrug Optional Control 		
Trade names	CEDIA [®] Multi-Drug Calibrators, CEDIA [®] Opiate 2K Control, CEDIA [®] Negative Calibrators, CEDIA [®] THC Calibrators, CEDIA [®] THC Control Sets, CEDIA [®] Optional Control Set		
Chemical family	Mixture		
Relevant identified uses of the substance or mixture and uses advised against	f In vitro diagnostic kit.		
Note	The pharmacological, toxicological, and mixture have not been fully characterize data become available.	l ecological properties of this product/ ed. This data sheet will be updated as more	

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

50	instance of mixture	
	Regulation (EC) 1272/2008 [GHS]	Mixture not yet fully tested.
	Directive 67/548/EEC or 1999/45/EC	Mixture not yet fully tested.
L	abel elements	
	CLP/GHS hazard pictogram	None required
	CLP/GHS signal word	Warning
	CLP/GHS hazard statements	EUH032 - Contact with acids liberates very toxic gas.
	CLP/GHS precautionary statements	None required
	EU symbol/indication of danger	×
		Xn - Harmful
	Risk (R) Phrase(s)	R32 - Contact with acids liberates very toxic gas.
	Safety Advice	S2 - Keep out of reach of children. S23 - Do not breathe vapor/spray. S24 - Avoid contact with skin. S37 - Wear suitable protective gloves. S50 - Do not mix with acids.
0	ther hazards	No data specific for the mixture were identified. This product contains human urine and should be treated/handled as a potential biohazard. All such human urine has been derived from donors tested individually and shown by FDA approved methods to be free from antibodies to Human Immune Deficiency Virus and Hepatitis B and C. As no test method can offer complete assurance that these or other infectious agents are not present, this product should be handled using standard biosafety precautions.
U	S Signal word	Caution
U	S Hazard overview	Mixture not yet fully tested. This product contains human urine and should be treated/handled as a potential biohazard.
Ν	ote	This mixture is classified as hazardous according to Directive 1999/45/EC, Regulation EC No 1272/2008 (EU-CLP), and applicable US regulations. The pharmacological, toxicological, and ecological properties of this mixture have not been fully characterized. The CLP/GHS classifications are based on Regulation (EC) 1272/2008. The EU symbol/indicator of danger, R Phrases and Safety Advice are based on Directive 1999/45/EC.

SECTION 3 - COMPOS	SITION/INFORMATIO	N ON INGREDI	ENTS		
Ingredient	<u>CAS #</u>	<u>EINECS/ELIN</u> <u>CS#</u>	<u>Amount</u>	<u>EU</u> Classification	<u>GHS</u> <u>Classification</u>
Urine (Human)	N/A	N/A	≥99.86%	Not classified	Not classified
Sodium azide	26628-22-8	247-852-1	≤0.13%	Very Toxic -	ATO2: H300;
				T+: R28, R32;	AA1: H400,
				N: R50/53	CA1: H410;
					EUH032
Note	The ingredient(s) lis				
	it is a potential biohazard. Products contains trace levels of various active				
pharmaceutical ingredients (<0.0008%). The remaining components are non-		e non-			

pharmaceutical ingredients (<0.0008%). The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of EU and GHS classifications. The EU classification is based on Directive 67/548/EEC and the CLP/GHS classification is based on Regulation (EC) 1272/2008.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

Immediate Medical Attention Needed	No. If exposed or concerned: Get medical advice/attention.
Eye Contact	If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.
Skin Contact	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
Inhalation	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
Ingestion	If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
Protection of first aid responders	See Section 8 for Exposure Controls/Personal Protection recommendations.
Most important symptoms and effects, both acute and delayed	See Sections 2 and 11

SECTION 4 - FIRST AID MEASURES ... continued

Indication of immediate medical attention and special treatment needed, if necessary Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
Specific hazards arising from the substance or mixture	No information identified. May emit toxic gases of carbon monoxide, carbon dioxide, and oxides of nitrogen.
Flammability/Explosivity	No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive.
Advice for firefighters	In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.
Environmental precautions	Do not empty into drains. Avoid release to the environment.
Methods and material for containment and cleaning up	DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Disinfect the area twice with an appropriate solvent, such as 5% chlorine bleach solution.
Reference to other sections	See Sections 8 and 13 for more information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling	This material should be handled at the Biosafety Level 2 (BSL2) consistent with the U.S. Department of Health and Human Services, the U.S. Public Health Service, Centers for Disease Control (CDC), and National Institute of Health (NIH) Guidelines "Biosafety in Microbiological and Biomedical Laboratories" (December 2009, HHS Publication No. (CDC) 21-1112). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly
	after handling. Avoid breathing vapor/mist/spray.
Conditions for safe storage including any incompatibilities	Store at 2-8 °C in a well-ventilated area, away from incompatible materials. Keep container upright and tightly closed. Do not freeze.
-	Bacterial contamination produces an increase in turbidity and/or a characteristic odor. Discard vial if evidence of microbial contamination is observed.
Specific end use(s)	No information identified.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note

Dispose of broken vials/syringes in a sharps container.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ... continued

Control Parameters/Occupational Exposure Limit Values

Exposure Limit Values			
Compound	Issuer	<u>Type</u>	<u>OEL</u>
Urine (Human)			
Sodium azide	ACGIH,	OEL-STEL	0.3 mg/m ³
	Australia,		
	Austria,		
	Belgium,		
	Bulgaria,		
	Croatia,		
	Cyprus, Czech		
	Republic,		
	Estonia,		
	Finland,		
	France, Greece	,	
	Hungary,		
	Ireland, Italy,		
	Latvia,		
	Lithuania,		
	Malta,		
	Netherlands,		
	Poland,		
	Romania,		
	Slovakia,		
	Slovenia,		
	Spain, Sweden	,	
	U.SCalifornia	l	
	OSHA, United		
	Kingdom		
	New Zealand,	Ceiling	0.29 mg/m ³
	Portugal	-	-
	-		

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ... continued

Control Parameters/Occupational Exposure Limit Values ...continued

Compound	Issuer	Type	<u>OEL</u>
Sodium azide	ACGIH,	OEL-TWA	0.1 mg/m^3
	Australia,		
	Austria,		
	Belgium,		
	Bulgaria,		
	Croatia,		
	Cyprus, Czec	h	
	Republic,		
	Denmark,		
	Estonia,		
	Finland,		
	France, Greec	e,	
	Hungary,		
	Ireland, Italy,		
	Latvia,		
	Lithuania,		
	Malta,		
	Netherlands,		
	Poland,		
	Romania,		
	Slovakia,		
	Slovenia,		
	Spain, Swede	n,	
	U.SCaliforn	ia	
	OSHA, Unite	d	
	Kingdom		
	NIOSH,	Ceiling	0.3 mg/m ³
	U.SCaliforn	ia	-
	OSHA		
	Germany	OEL-STEL	0.4 mg/m^3
	Germany	OEL-TWA	0.2 mg/m^3
Exposure/Engineering	Selection and use of	containment device	es and personal protective equ

controls

Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/ or enclosure at aerosol/ mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ... continued

Respiratory protection	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air purifying respirator should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls.
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
Skin protection	Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Environmental Exposure Controls	e Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
Other protective measures	Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear liquid
Color	Colorless
Odor	No information identified.
Odor threshold	No information identified.
рН	6.0-7.0
Melting point/freezing point	No information identified.
Initial boiling point and boiling range	No information identified.
Flash point	No information identified.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ... continued

No information identified.
No information identified.
No information identified.
No information identified
No information identified.
No information identified.
Miscible with water.
No information identified.
Not applicable (Mixture)
Not applicable (Mixture)

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.
Chemical stability	Stable when stored as recommended.
Possibility of hazardous reactions	Not expected to occur.
Conditions to avoid	Avoid extreme temperatures.
Incompatible materials	No information identified.

SECTION 10 - STABILITY AND REACTIVITY ... continued

Hazardous decomposition No information identified. products

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects

Route of entry	May be absorbed by	inhalation, ski	n contact and ing	gestion.
Acute toxicity <u>Compound</u> Urine (Human) Sodium azide	$\frac{Type}{}$ LD_{50} LD_{50} LD_{50}	<u>Route</u> Oral Oral Dermal	<u>Species</u> Rat Mouse Rabbit	Dose 27 mg/kg 27 mg/kg 20 mg/kg
Irritation/Corrosion	No studies identified.			
Sensitization	No studies identified.			
STOT-single exposure	No studies identified.			
STOT-repeated exposure/Repeat-dose toxicity	No studies identified	1.		
Reproductive toxicity	No studies identified	1.		
Developmental toxicity	No studies identified	1.		
Genotoxicity	No studies identified	1.		
Carcinogenicity			.	is mixture present at levels RC, ACGIH or OSHA as a
Aspiration hazard	No data available.			
Human health data	See "Section 2 - Oth	See "Section 2 - Other Hazards"		
Additional information	The toxicological pr	operties of this	mixture have no	t been fully characterized.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity			
Compound	Type	Species	Concentration
Urine (Human)	 L.C. /0.Ch	 On a scheme hare modeler	
Sodium azide	LC ₅₀ /96h	Oncorhynchus mykiss	0.8 mg/L
	LC ₅₀ /96h	Lepomis macrochirus	0.7 mg/L
	LC ₅₀ /96h	Pimephales promelas	5.46 mg/L
Additional toxicity information		c to aquatic organisms and shoul piping as it has the potential to f	
Persistence and Degradability	No data available.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Results of PBT and vPvB assessment	Not performed.		
Other adverse effects	No data available.		
Note	investigated. The abc ingredient(s) where a	haracteristics of this product/mix ove data are for the active ingred applicable. Although present at lo sodium azide is present. Release	ient and/or any other ow concentrations, disposal

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods Used product should be disposed of according to local, state, and federal regulations. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner.

SECTION 14 - TRANSPORT INFORMATION

Transport	Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.
UN number	None assigned.
UN proper shipping name	None assigned.

SECTION 14 - TRANSPORT INFORMATION ... continued

Transport hazard classes and packing group	None assigned.
Environmental hazards	Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.
Special precautions for users	Mixture not fully tested - avoid exposure.
Transport in bulk according Not applicable. to Annex II of MARPOL73/78 and the IBC Code	

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008) guidelines. Consult your local or regional authorities for more information.
Chemical safety assessment	Not conducted.
OSHA Hazardous	Caution. Mixture not fully tested. Product contains human urine and should be treated/handled as a potential biohazard.
WHMIS classification	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.
TSCA status	All components of mixture are on TSCA inventory or are exempt
SARA section 313	Not listed.
California proposition 65	Not listed.

SECTION 16 - OTHER INFORMATION

Full text of R phrases and EU Classifications	T+ - Very toxic. R28 - Very toxic if swallowed. R32 - Contact with acids liberates very toxic gas. N - Dangerous for the Environment. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of H phrases, P phrases and GHS classification	ATO2 - Acute Toxicity (Oral) Category 2. H300 - Fatal if swallowed. AA1- Aquatic toxicity (acute) - Category 1. H400 - Very toxic to aquatic life. CA1 - Aquatic toxicity (chronic) - Category 1. H410 - Very toxic to aquatic life with long lasting effects. EUH032 - Contact with acids liberates very toxic gas.

SECTION 16 - OTHER INFORMATION ... continued

Sources of data	Information from published literature and internal company data.
Abbreviations	ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System
Disclaimer	The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical/diagnostic product. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.