microgenics

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

MSDS Name	DRI® Serum Tox Calibrators
Catalog Number	0962, 0963, 0965, 0967, 0976
Synonyms	Serum Tox Negative, Serum Tox Calibrator 1, Serum Tox Calibrator 2, Serum Tox Calibrator 3, Serum Tox Calibrator 4
Company Identification	Microgenics Corporation
Office Address	46360 Fremont Blvd.
City, State, Zip Code	Fremont, CA 94538
Company Phone Number	(510) 979-5000
Emergency Phone Number	(510) 979-5000
CHEMTREC Phone Number, US	(800) 424-9300
CHEMTREC Phone Number, Europe	(202) 483-7616

Section 2 – Composition, Information on Ingredients

CAS #	Component Name	Content	EINECS/ELINCS	Labelling/Classification
309-43-3	Barbiturate	<0.01%	206-218-4	Xn; R22 R52/53
1088-11-5	Benzodiazepine	<0.01%	214-123-4	
N/A	Tricyclics	<0.01%	N/A	

Component comments: classified components are under the limit to be included in the calculations. The product may contain proteins, sugars, salts, and water

Section 3 - Hazard Identification

Caution! This material is prepared from bovine source material. By normal use the product is not regarded as hazardous to health. The product is not classified as flammable or harmful to the environment; may cause eyes, skin, digestive track, and respiratory track irritation. The toxicological properties of this material have not been fully investigated

Section 4 - First Aid Measures

Eyes	In case of contact immediately remove any contact lenses, hold the eyelids apart and flush eyes with plenty of water for at least 15 minutes. Consult physician if symptoms should occur
Skin	In case of contact remove contaminated clothing immediately, wash area with soap and flush with plenty of water. Get medical attention if irritation develops and persists
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Drink plenty of water. Get medical attention
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult physician
Notes to Physician	Treat symptomatically

Section 5 - Fire Fighting Measures

Personal protective equipment	Combustion products may be health hazardous. In case of evacuation use OSHA/NIOSH (or equivalent) approved protection mask. See section 8
Fire and explosion hazards	Liquid product is not combustible; solid product may burn
Extinguishing Media	All common fire extinguishing agents may be used
NFPA Rating (estimated)	Health: 2; Flammability: 0; Instability: 0

Section 6 – Accidental Release Measures

General Information	Use proper personal protective equipment as indicated in Section 8
Spills/Leaks	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Wash area with a 5% chlorine bleach solution or equivalent, then rinse with water

Section 7 – Handling and Storage

Handling	Keep container tightly closed. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Material produced in compliance to USDA and/or CPMP/BWP/1230/98 (or amendment as applicable) (Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products). This is a CPMP/BWP/1230/98 Category IV material: It does not contain, nor is it derived from Specified Risk Materials as defined in Commission decision 97/534/EC (or successive amendments)
Storage	Store in a tightly closed container. For shelf life, store between –15° to –25°C

Section 8 – Exposure Controls, Personal Protection

Engineering Controls	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low

Exposure Limit Values

Chemical Name	ACGIH	NIOSH	OSHA	AIHA
CAS#309-43-3	None listed	None listed	None listed	None listed
CAS#1088-11-5	None listed	None listed	None listed	None listed
N/A	None listed	None listed	None listed	None listed

NOES Hazard Code	CAS#309-43-3	84712

Personal Protective Equipment

Eyes	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
Skin	Wear appropriate protective gloves to prevent skin exposure. No skin irritation expected
Clothing	Wear appropriate protective clothing to prevent skin exposure
Respirators	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use

Section 9 – Physical and Chemical Properties

Physical State	Liquid
Color	Clear amber
pH	6-7
Solubility in water	Miscible
Molecular Formula	Solution

Section 10 – Stability and Reactivity

Chemical Stability	Stable at room temperature in closed containers under normal storage and handling conditions
Conditions to Avoid	Excess heat
Incompatibilities with Other Materials	None reported
Hazardous Decomposition Products	None
Hazardous Polymerization:	Has not been reported

Section 11 – Toxicological Information

RTECS	CAS#309-43-3	CP9800000	CAS#1088-11-5	DF1750000
LD50/LC50	CAS#309-43-3	Oral LD50 Rat: 125 mg/kg	CAS#1088-11-5	Oral LD 50 mouse : 670 mg/kg

Carcinogenicity	Carcinogenic properties are not known
Epidemiology	No information found
Teratogenicity	Teratogenic properties are not known
Reproductive	Some components are known to cause birth defects or other reproductive harm. See Sec.15
Mutagenicity	Mutagenic properties are not known
Neurotoxicity	Neurotoxic properties are not known
Other	Ingestion of significant amount may cause nausea and vomiting

Section 12– Ecological Information

Ecotoxicity	CAS#309-43-3	96 Hr LC 50 pimephales promelas; 23.6 mg/L [flow-through]
Mobility	Soluble in water	
Environmental	the product is not classified as harmful to the environment	

Section 13 – Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40CFR Parts 261.3
Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification

RCRA P Series Wastes	None of the components are on this list
RCRA U Series Wastes	None of the components are on this list
EWC waste code	18 01 05 discard as chemicals and medicines

Section 14 – Transport Information

Not regulated as a hazardous material under US DOT, Canadian TDG, UNECE, ADR, IATA, IMDG, OTIF

Section 15 – Regulatory Information

US Federal

CAS#1088-11-5 **DEA** (Drug Enforcement Administration) - Schedule IV Controlled Substance

US State

CAS#1088-11-5	Arizona, Colorado, Connecticut, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Minnesota, Mississippi, Ohio, Oregon, West Virginia Wisconsin, Wyoming – Schedule IV Controlled Substance
CAS#1088-11-5	New Mexico, Pennsylvania – Schedule I Controlled Substance

California

Prop 65

CAS#1088-11-5
WARNING: This product contains Benzodiazepine a chemical known to the State of California to cause birth defects or other reproductive harm
CAS#309-43-3
WARNING: This product contains Barbiturate, a chemical known to the State of California to cause birth defects or other reproductive harm

European/International Regulations

Government Inventory Lists

CAS#309-43-3 **AICS** (Australia Inventory of Chemical Substances), ENCS (Japan Existing and New Chemical Substances)
CAS#1088-11-5 **New Zealand**

Advisory Agencies

OECD - The Organization for Economic and Co-operative, **OSPAR** – Oslo/Paris Convention of September 22, 1992 - List of Chemicals for Priority Action, **Australia Group** – Export Control List - European Commission for Chemical Weapons Precursors, **ICCA** - International Council of Chemical Associations, **IPCS** - International Program on Chemical Safety, **CICADs** - International Chemical Safety Documents, **WHO** - World Health Organization, **UNEP** United Nations Environment Program, **WGK** - Wassergefährdungsklasse or WHC - Water Hazard Class, **Exposure Limits**
No information found

European Union Directives

Seveso II Directive (96/82/EC) - Qualifying Quantities for Safety Report Requirements, **67/548/EEC** Dangerous Substances Directive, **2006/15/EC, 98/24/EC** - Occupational Exposure Directives, **304/2003** - Export and Import Restrictions, **76/769/EEC** - Marketing Restrictions Directive, **273/2004** - Export Requirements and Drug Precursors, **1277/2005** – Narcotics, **2037/2000/EC** - Ozone Depleting Substances Regulation, **793/93/EEC** - Existing Substance Regulation, **Directive 96/59/EC** - Disposal of Polychlorinated Biphenyls and Polychlorinated Terphenyls, **Directive 79/117/EEC and Directive 91/414/EEC** - Plant Protection Products, **2000/479/EC (EPER)** -European Pollutant Emission Register, **1907/2006 – REACH, 2002/95/EC (RoHS)** - Hazardous Substances Restricted or Prohibited in Electrical Equipment, **2002/96/EC (WEEE)** - Waste Electrical and Electronic Equipment, **2006/11/EC** - Water Pollution Directive, **Directive 98/83/EC** - Water Quality - Water Intended for Human Consumption
No information found

1999/45/EC - European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases: Not available
Safety Phrases: S 24/25 Avoid contact with skin and eyes

United Nations Lists

CAS#1088-11-5 **INCB** - International Narcotics Control Board - Schedule IV Substance

Canada Federal Government

CAS#1088-11-5 **Controlled Drugs and Substances** -Class 1 Targeted substance, Schedule IV
CAS#309-43-3 **DSL** - Domestique Substances List

Other

Asia-Pacific

CAS#1088-11-5 Australia, China, Hong-Kong, Japan, Myanmar, Philippines, Singapore, Taiwan, Thailand – Schedule II, Part 2, Schedule IV Psychotropic Substance

EU and Non-EU Countries

CAS#1088-11-5 Denmark, Iceland, Switzerland, Bermuda - Self-Classified, Regulated Controlled, Partially Exempted Substances

Section 16 – Other Information

Color information has been updated.
Revision: 1

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