

Slingshot Labs Single and Multi-Biomarker Controls

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SDS Preparation Date (dd/mm/yyyy): 08/31/2023

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

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

1.1 Product identifier

Slingshot Labs Single and Multi-Biomarker Controls

:

Research and development only.

Use pattern: professional use

:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Restrictions on use: Research and development only.

1.3 Details of the supplier of the safety data sheet:

Slingshot Biosciences

1250 45th Street, Suite 330

Emeryville, CA, USA

94608

(510) 770 6806

Telephone

:

:

+001 (510) 770 6806 (Monday to Friday 9 AM-5 PM EST)

1.4 Emergency Telephone Number

1.5 National Contact

:

ops@slingshotbio.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

This product contains an ingredient that is present on the candidate list SVHC's of Annex XIV of the REACH Regulation 1907/2006/EC.

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:

None.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

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Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Inhalation of dusts may cause respiratory irritation. May cause slight eye and skin irritation. May cause gastrointestinal irritation.

PBT assessment: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Not applicable

Chemical nature Mixture

The following substances shall be indicated according to legislation:

Classification according to Regulation (EC) nr. 1272/2008

Reach
Registration
No.

CAS No
Substance name
EC No.

SCL,
M-factor,
ATE
% Weight

26628-22-8

Sodium azide

247-852-1

Acute Tox. 2 ;H300

Aquatic Acute 1;H400

Aquatic Chronic 1;H410

Not available

ATE oral = Not applicable.

M-Factor =1

<0.01

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Do not induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. When symptoms persist or in all cases of doubt, seek medical advice.

:

Ingestion

If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. When symptoms persist or in all cases of doubt, seek medical advice.

:

Inhalation

Wash off with plenty of water. When symptoms persist or in all cases of doubt, seek medical advice. Wash contaminated clothing before reuse.

Skin contact

:

Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases of doubt, seek medical advice.

Eye contact

:

4.1.2 Self-protection for the first aider

:

None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation of dusts may cause respiratory irritation.

May cause slight eye and skin irritation. Direct eye contact may cause slight redness. Direct skin contact may cause temporary

redness.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

:

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4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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

None known.

Not classified as flammable. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; ; Nitrogen oxides (NOx);Sodium oxides ; Hydrogen chloride; Potassium oxides; Other unidentified organic compounds

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

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. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

Wear appropriate protective equipment.

6.1 Personal precautions, protective equipment and emergency procedures

SECTION 6. ACCIDENTAL RELEASE MEASURES

Prevent product from entering drains, sewers, waterways and soil.

6.2 Environmental precautions

Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

7.1 Precautions for safe handling

SECTION 7. HANDLING AND STORAGE

7.2 Conditions for safe storage, including any incompatibilities

Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS).

7.3 Specific end use(s)

Research and development only.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

<u>Chemical Name</u>
<u>Exposure Limits</u>
<u>Type</u>
<u>Notes</u>

Sodium azide

0.1 mg/m³ (TWA);

0.3mg/m³ (STEL)

European Union (OEL)

None.

0.1 mg/m³ VME (restrictive limit);0.3 mg/m³ VLCT (restrictive limit)

France (OEL)

Risk of cutaneous absorption

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

No information available.

Predicted No Effect Concentration (PNEC):

No information available.

8.2 Exposure controls

Ventilation and engineering measures

:

Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

:

In case of insufficient ventilation wear suitable respiratory equipment. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Seek advice from respiratory protection specialists. Gloves impervious to the material are recommended. Wear as appropriate: Latex gloves; Neoprene gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Wear sufficient clothing to prevent skin contact.

:

Skin protection

Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles. See also EN 166.

:

Eye / face protection

Other protective equipment

:

Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

:

Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

:

Avoid release to the environment.

Not available.

:

Physical state

9.1 Information on basic physical and chemical properties

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Colour

Not available.

Odour

Not available.

Odour threshold

No information available.

pH

Not available.

Flash point

Not available.

No information available.

Flashpoint (Method)

Lower flammable limit (% by vol.)

No information available.

No information available.

Upper flammable limit (% by vol.)

No information available.

Auto-ignition temperature

Decomposition temperature

Not available.

None.

Oxidizing properties

Explosive properties

Not explosive

Not available.

Initial boiling point and boiling range

Melting/Freezing point

Not available.

Not available.

Relative density

Solubility in water

Insoluble.

Other solubility(ies)

No information available.

Not available.

Vapour pressure

Not available.

Vapour density

No information available.

Partition coefficient: n-octanol/water

Not applicable.

Viscosity

Evaporation rate (BuAe = 1)

No information available.

Particle characteristics

Not applicable.

9.2 Other Information

No information available.

Volatiles (% by weight)

Volatile organic Compounds (VOC's)

No information available.

No additional information.

Other physical/chemical comments

Not normally reactive.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

10.4 Conditions to avoid

10.5 Incompatible materials

Strong oxidizing agents; Strong acids; Strong bases; Nitrogen compounds

10.6 Hazardous decomposition products

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None known.

In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx); Sodium oxides ; Hydrogen chloride; Other unidentified organic compounds

:
:

Acute toxicity

According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

11.1 Information on Toxicological effects:

SECTION 11. TOXICOLOGICAL INFORMATION

:

Skin corrosion/Irritation

According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/irritation

:

According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

:

Respiratory or skin sensitisation

According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.

Contains no ingredient listed as a mutagen.

Germ cell mutagenicity

:

Carcinogenicity

Contains no ingredient listed as a carcinogen.

:

Reproductive toxicity

Contains no ingredient listed as toxic to reproduction.

:

STOT-single exposure

:

According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure

:

According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

:

Aspiration hazard

Inhalation; Skin contact; Eye contact; Ingestion

:

Routes of exposure

Effects of acute exposure

Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Skin contact: Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Eye contact: Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

:

Potential Chronic Health Effects

None known or reported by the manufacturer.

:

Information on other Hazards

None known or reported by the manufacturer.

:

11.1.1 Acute Toxicity

No data is available on the product itself.

See below for individual ingredient acute toxicity data.

Toxicological data

Sodium azide

:
LD₅₀
LC₅₀(4hr)
inh, rat
Chemical name
(Rabbit, dermal)
(Oral, rat)

N/Av
27 mg/kg
50 mg/kg

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12.1 Toxicity

:

Not expected to be harmful to aquatic organisms.

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity data:

NOEC / 21 day

LC50 / 96h

M Factor

Toxicity to Fish

CAS No

Ingredients

Sodium azide

0.8 mg/L

26628-22-8

N/Av

1

CAS No

Ingredients

Toxicity to Daphnia

EC50 / 48h

NOEC / 21 day

M Factor

26628-22-8

None.

N/Av

N/Av

Sodium azide

CAS No

Ingredients

Toxicity to Algae

EC50 / 96h or 72h

NOEC / 96h or 72h

M Factor

26628-22-8

Sodium azide

N/Av

N/Av

None.

The product itself has not been tested.

12.2 Persistence and degradability

:

The product itself has not been tested.

12.3 Bioaccumulation potential

:

:

12.4 Mobility in soil

The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

:

None known or reported by the manufacturer.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

:

12.7 Other Adverse Environmental effects

:

12.8 Additional information

None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

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Handling for Disposal

:
Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.
Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Methods of Disposal

SECTION 14. TRANSPORTATION INFORMATION

**Regulatory
Information**

14.1 UN Number

14.2 UN proper shipping name

**14.4 Packing
Group**

Label

14.3 Transport hazard class(es)

not regulated

not regulated
ADR/RID

None.

none

Additional information

Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.

ADR/RID

Not regulated.

not regulated
ICAO/IATA

None.

none

Additional information

None.

ICAO/IATA

Not regulated.

not regulated
IMDG

None.

none

Additional information

None.

IMDG

14.5 Environmental hazards

:
This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

:
Appropriate advice on safety must accompany the package.

14.6 Special precautions for user

Not applicable.

:

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:
None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

Sodium azide (CAS # 26628-22-8)

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

Sodium azide (CAS # 26628-22-8)

Directive 94/33/EC on the protection of young people at work:

Sodium azide (CAS # 26628-22-8)

:
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstract Services

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EC: European Community

EC50: Effective Concentration 50%

ECHA: European Chemicals Agency

EU: European Union

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SCBA: Self-Contained Breathing Apparatus

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

Legend

:

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1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

Information Source

Preparation Date (dd/mm/yyyy)

05/07/2023

Not applicable.

H-phrases (full-text)

H300 Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

EUH032 - Contact with acids liberates very toxic gas.

Regulation and Procedure

Other special considerations for handling

Provide adequate information, instruction and training for operators.

Prepared by:

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DISCLAIMER

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