

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name Perseus SC

SDS Number 26011203P

1.2 Recommended use of the chemical and restrictions on use

Recommended Use Crop protection product, herbicide

Uses Advised Against No information available

1.3 Supplier

Viriterra Inc.
9121 Anson Way, Suite 200
Raleigh, NC 27615
Tel. 214-558-8089

1.4 Emergency telephone no.

**Emergency Telephone
Number** 214-558-8089

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classified according to GHS legislation

Signal word: Warning



Specific Target Organ Toxicity – Repeated Exposure Category 2

Hazardous to the Aquatic Environment – Acute (short-term) Category 1

Hazardous to the Aquatic Environment – Chronic (long-term) Category 1

May cause damage to organs through prolonged or repeated exposure (H373)

Very toxic to aquatic organisms with long lasting effects (H400+H410)

2.2 Label elements

Labeled in accordance with specific Brazilian legislation

Hazard label required for supply and use.

Hazardous components that must be shown on the label:

- Pyroxasulfone

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

PRECAUTIONARY STATEMENTS

Avoid breathing mist/vapors/spray. (P261)

Avoid release to the environment. (P273)

Get medical help if you feel unwell (P319)

Collect spillage. (P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

2.3 Other hazards

No additional hazards known other than those mentioned.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical nature

Suspension Concentrate (SC)

Pyroxasulfone 41.46%.

Hazardous components

Name	CAS No.	Conc. [%]
Pyroxasulfone	447399-55-5	41.46
1,2-Benzisothiazolin-3-one	2634-33-5	< 0.1
Other ingredients to 100%		

SECTION 4: FIRST AID MEASURES

4.1 Description of first-aid measures

General recommendation

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

4.2 Most important symptoms and effects, acute and delayed

Symptoms

No known or expected symptoms.

4.3 Notes for the doctor

Treatment

Treat according to symptoms. There is no specific antidote if this product is ingested.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

Unsuitable

High-flow water jet.

5.2 Special risks resulting from the substance or mixture

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

5.3 Precautions for firefighters

Special equipment to protect those involved in fighting the fire.

Do not breathe vapors in case of fire and/or explosion. Use self-contained breathing apparatus and protective clothing.

Other information

Contain spillage of extinguishing fluids. Do not allow water used to extinguish the fire to flow into drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For personnel who are not part of the emergency services

Wear personal protective equipment (PPE). Keep unauthorized persons away. Avoid product contact with skin, eyes and mucous membranes. Do not handle broken packaging unless you are properly protected with personal protective equipment. Isolate and mark the contaminated area. Do not smoke. Keep all sources of ignition away. Do not touch or walk on spilled product.

6.1.2 For emergency service personnel

Wear personal protective equipment (PPE). Isolate and signal the contaminated area within a minimum radius of 50 meters in all directions. Keep unauthorized persons away.

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

6.2 Environmental precautions

Do not allow to reach surface water, drains or groundwater.

6.3 Methods and materials for containment and cleaning

Cleaning methods

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean floors and soiled objects thoroughly, observing environmental regulations. Keep in suitable closed containers until disposal.

Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Hygiene measures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feeding stuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Engineering control measures

Ensure adequate ventilation in the workplace. Provide exhaust ventilation where processes require it, provide an emergency shower and eye wash near the workplace.

8.3 Personal protective equipment

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection

Please observe the instructions regarding permeability and upwelling time provided by the glove supplier. Also take into account the specific local conditions under which the product is used, such as cut hazard, abrasion and contact time. Wash gloves when contaminated. Discard when contaminated on the inside, when perforated or when outside contamination cannot be removed. Wash your hands frequently and always before eating, drinking, smoking or using the toilet. Chemical resistant nitrile rubber gloves.

Eye protection

Tightly fitting safety goggles.

Skin and body protection

Wear standard overalls and Category 3 Type 4 clothing. If there is a risk of significant exposure, wear highly protective clothing. Use two layers of clothing whenever possible. Polyester/cotton or cotton overalls should be worn under chemical protective clothing and should be professionally laundered frequently. If the protective clothing is splashed or significantly contaminated, decontaminate as soon as possible, then carefully remove and dispose of as directed by the manufacturer.

General protective measures

In case of direct handling and possible contact with the product: Full chemical protection suit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Off-white
Physical State	Suspension liquid
Odor	Weak pungent
pH	6.0 – 8.0
Viscosity	0.524 Pa·s @ 20±0.2°C 0.493 Pa·s @ 40±0.2°C
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	1.2029 g/mL
Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	No data available
Water solubility	No data available
Minimum Ignition Energy	No data available
Decomposition temperature	Stable under normal conditions.
Partition coefficient (n-octanol/water)	No data available
Flammability	No data available
Flash point	92.8 °C
Explosivity	Not explosive



SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

9.2 Other information

Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight. Freezing.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity

LD₅₀(Rats) > 2,000 mg/kg (No mortality was observed.)

Acute toxicity-Inhalation

LC₅₀(Rats) > 3.8 mg/L (4h, an aerosol with respirable particles was tested. No mortality was observed.)

Acute toxicity-Dermal

LD₅₀(Rats) > 5,000 mg/kg (No mortality was observed.)

Skin corrosion/irritation

Not an irritant (Rabbit)

Serious eye damage/eye irritation

Not an irritant (Rabbit)

Skin sensitization

Not-Sensitizing (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

For the active ingredient pyroxasulfone, effects seen in animal studies ranged from cardiac toxicity, liver toxicity and neurotoxicity characterized by axonal/myelin degeneration in the sciatic nerve, urinary bladder mucosal hyperplasia, inflammation, and urinary bladder transitional cell papillomas.

Mutagenicity assessment

No data available

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

Carcinogenicity assessment

Not likely to be carcinogenic to humans (pyroxasulfone)

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Aspiration hazard

No data available

11.2 Other information

No further information on toxicity is available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The following information is for the active ingredient, Pyroxasulfone

AQUATIC TOXICITY

Bluegill Sunfish (LC₅₀): >2.8 mg a.i./L
Sheepshead Minnow (LC₅₀): >3.3 mg a.i./L
Fathead Minnow (NOAEC): 2.0 mg a.i./L
Eastern Oysters (EC₅₀): >3.6 mg a.i./L
Waterflea (EC₅₀): >4.4 mg a.i./L; (NOAEC): ≥1.9 mg a.i./L
FW Green Alga (IC₅₀): 0.00038 mg a.i./L
Duckweed (IC₅₀): 0.006 mg a.i./L

AVIAN TOXICITY

Northern Bobwhite Quail (LD₅₀): >2,250 mg a.i./kg-bw
Northern Bobwhite Quail (dietary): >5,620 mg a.i./kg diet
Mallard Duck (NOAEC): 60 mg a.i./kg diet

OTHER TOXICITY

Honeybee (48-hr LD₅₀): >100 µg a.i./bee (contact); >80.4 µg a.i./bee (oral)

12.2 Persistence and degradability

No data available

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

12.3 Bioaccumulative potential

No data available

Bioaccumulation

No data available

12.4 Mobility in soil

No data available

12.5 Additional ecological information

No other effects to be mentioned.

12.6 Environmental precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not allow product to enter streams, sewers or other waterways. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Do not contaminate water, food, or feed by disposal. In accordance with current legislation and, if necessary, after consulting the site operator and/or responsible authority, the product may be destined for landfill or incineration.

Contaminated packaging

Packaging containing leftover product should be disposed of as hazardous waste.

SECTION 14: TRANSPORT INFORMATION

US DOT

UN Number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYROXASULFONE IN SOLUTION)
Transport hazard class(es)	9
Packaging group	III
Marine pollutant	YES

IMDG

UN Number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYROXASULFONE IN SOLUTION)
Transport hazard class(es)	9
Packaging group	III
Marine pollutant	YES

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

IATA

UN Number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYROXASULFONE IN SOLUTION)
Transport hazard class(es)	9
Packaging group	III
Marine pollutant	YES

Special precautions for users

See sections 6 to 8 of this Safety Data Sheet.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer

Not applicable

The Stockholm Convention on Persistent Organic Pollutants

Not applicable

The Rotterdam Convention

Not applicable

IBAMA: Normative Ordinance No. 84 of October 15, 1996.

This Material Safety Data Sheet (MSDS) has been prepared in accordance with NBR 14725-4:2014 (Brazilian Association of Technical Standards)

15.2 FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SAFETY DATA SHEET

Perseus SC

Version 3.0 / ENG

Revision Date: 06/25/2026

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (acute), Delayed (chronic)

SARA Title III – Section 312 Threshold Planning Quantity

Not listed

SARA Title III – Section 313 Reportable Ingredients

Not listed

CERCLA Reportable Quantity (RQ)

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ANTT	National Land Transport Agency
LOEC/LOEL	Lowest concentration/level with observed effect
UN	United Nations
OECD	Organization for Economic Cooperation and Development
EN	European Standard
N.O.S.	Not otherwise specified
EU	European Union
ELINCS	European List of Notified Chemical Substances
EC-No.	European Community Number
NOEC/NOEL	No-observed-effect concentration/level
LDx	Lethal dose for X%
LCx	Lethal concentration for X%
ICx	Inhibition concentration for x% ECx Effective concentration for X%
CAS-Nr.	CAS number (Chemical Abstracts Service)
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.