

Safety Data Sheet (SDS)

Issuing Date: 2024-10-22 Version: 1

1. Identification

A. Product identifier

Product name Thapsigargin

Synonyms Thapsigargin.

Product Code(s) 12758

CAS No 67526-95-8

B. Relevant identified uses of the substance or mixture and uses advised against

Identified uses For Research Use Only. Not for Use in Diagnostic Procedures.

Uses advised against No information available

C. Supplier's details

Manufacturer Supplier Supplier

Cell Signaling Technology, Inc.Seoulin Bioscience Co., Ltd.Koram Biotech Co., Ltd.3 Trask Lane경기도 성남시 분당구 대왕판교로 700서울시 강남구 선릉로76길 4

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2. Hazard(s) identification

A. Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

B. GHS Label elements, including precautionary statements



Signal Word

Danger

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

C. Other hazards which do not result in classification

Not applicable

3. Composition/information on ingredients

Synonyms Thapsigargin.

Formula C₃₄H₅₀O₁₂

Chemical name	CAS No	Weight-%	Other information
Octanoic acid,	67526-95-8	100	
6-(acetyloxy)-2,3,3a,4,5,6,6a,7,8,9b-de			
cahydro-3,3a-dihydroxy-3,6,9-trimethyl			
-8-((2-methyl-1-oxo-2-butenyl)oxy)-2-o			

xo-4-(1-oxobutoxy)azuleno(4,5-b)furan		
-7-yl ester,		
(3S-(3alpha,3abeta,4alpha,6beta,6abe		
ta,7beta,8alpha(Z),9balpha))-		

4. First-aid measures

A. In case of eye contact Rinse thoroughly with plenty of water, also under the eyelids.

B. In case of skin contact Wash skin with soap and water.

C. In case of inhalation Remove to fresh air.

D. In case of ingestion Clean mouth with water and afterwards drink plenty of water.

E. Indication of immediate medical attention and special treatment needed, if necessary

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

surrounding environment.

Unsuitable Extinguishing Media No information available

B. Specific hazards arising from the No information available.

chemical

C. Special Protective Equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Firefighters Use personal protection equipment.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas Ensure adequate ventilation

B. Environmental precautions Do not flush into surface water or sanitary sewer system.

C. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize

spreading and keep powder dry. Take up mechanically, placing in appropriate containers for

disposal. Avoid dust formation. Clean contaminated surface thoroughly.

Prevention of secondary hazardsClean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

A. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

B. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls/personal protection

A. Control Parameters

Occupational exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

B. Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Environmental exposure

controls

No information available.

C. Personal Protective Equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Eye protection Safety glasses with side-shields

Hand protection Impervious gloves.

Body protection Wear suitable protective clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

Α.

Physical State Solid Colorless

B. OdorC. Odor ThresholdNo information availableNo information available

Property Values Remarks • Method

D. pH No information available None known

E. Melting point/freezing point No information available None known F. Initial boiling point and boiling No information available None known

range

No information available G. Flash point None known H. Evaporation rate No information available None known No information available None known I. Flammability

J. Upper/lower flammability or explosive limits

Upper explosion limit No information available. No information available No information available. No information available Lower explosion limit No information available None known

K. Vapor pressure

L. Solubility(ies) Solubility No information available. None known None known Solubility in other solvents No information available M. Relative vapor density No information available None known N. Specific Gravity No information available None known O. Partition coefficient: No information available None known

n-octanol/water

P. Autoignition Point No information available None known Q. Decomposition temperature No information available None known

R. Viscosity

Viscosity No information available None known No information available Viscosity, dynamic None known

S. Molecular Weight 650.75 g/mol

Other information

Explosive properties No information available No information available **Oxidizing properties** Softening point No information available No information available **VOC** content **Liquid Density** No information available

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions

Stability Stable under normal conditions.

Possibility of hazardous

reactions

None under normal processing.

Explosion Data

Sensitivity to mechanical impact None Sensitivity to static discharge None

B. Conditions to Avoid None known based on information supplied

C. Incompatible products No information available

D. Hazardous Decomposition None known based on information supplied

Products

11. Toxicological information

A. Information on the likely routes of exposure

Product Information

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of

vapors in high concentration may cause irritation of respiratory system.

Ingestion Ingestion may cause irritation to mucous membranes.

Irritating to eyes. Eye contact Skin contact Irritating to skin.

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling **Symptoms**

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

B. Health hazards information

Numerical measures of toxicity No information available

Unknown Acute Toxicity

200 % of the mixture consists of ingredient(s) of unknown toxicity

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation

Sensitization Repeated or prolonged contact may cause allergic reactions in very susceptible persons

Carcinogenicity No information available.

No information available **Mutagenic effects**

Reproductive toxicity No information available.

Specific target organ toxicity

(STOT) - single exposure

Respiratory system

Specific target organ toxicity (STOT) - repeated exposure

No information available

No information available. **Target Organ Effects Aspiration hazard** No information available.

12. Ecological information

A. Ecotoxicity The environmental impact of this product has not been fully investigated.

Percentage for unknown hazards 100 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment

B. Persistence and degradability No information available.

C. Bioaccumulative potential No information available.

D. Mobility in soil No information available.

E. Other adverse effects No information available.

13. Disposal considerations

A. Waste treatment methods

Waste from residues/unused Di

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

B. Disposal considerations

Contaminated packaging Do not reuse empty containers.

14. Transport information

A. UN number

B. UN proper shipping name

C. Transport hazard class(es)

D. Packing group

E. Marine Pollutant

Not regulated
Not regulated
Not regulated
Not regulated

F. Special precautions for user No information available

15. Regulatory information

A. Industrial Safety and Health Law Not applicable

Harmful substances subject to control Not applicable

Harmful agents subject to work environment monitoring Not applicable

Harmful agents subject to workers requiring health examination Not applicable

B. Chemicals Control Act not applicable

Chemicals Control Act (CCA) - Accident Precaution Chemicals Not applicable

C. Safety Control of Dangerous

Substances Act

No information available

D. Wastes Management Dispose of waste in accordance with environmental legislation.

E. Other Regulations No information available

International inventories

Contact supplier for inventory compliance status. TSCA 8(b) DSL/NDSL Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AICS** Contact supplier for inventory compliance status.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. Other information

A. Information source and references

Prepared By No information available.

B. Issuing Date: 2024-10-22

C. Revision number and date

Version: 1

D. Other information .

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG International Maritime Dangerous Goods (IMDG)

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: Time weighted average STEL: Short term exposure limit

Ceiling: Maximum limit value: * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

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End of Safety Data Sheet

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