



PRODUCT SAFETY DATA SHEET
(According to E.C. Regulation 1272/2008
& E.C. Regulation 1907/2006 & E.C. Directive 1999/45)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/MANUFACTURER

1.1 Identification of the substance/mixture:

Trade name: SenTraGor™

CAS Registry Number™: 2099702-77-7

REACH number: No registration number is given yet for this substance / substances since the annual export quantity is less than one tonnage per annum according to E.C. Regulation 1272/2008.

Intended Use: For research use. For detection of senescent cells.

1.2 Identification of the company/manufacturer:

Only for Lot numbers: 170701, 170902, 171003 and 180104

ARRIANI PHARMACEUTICALS S.A.

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2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to E.C. Regulation 1272/2008: The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Information concerning particular hazards for human and environment: Not applicable.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Not applicable.

Hazard Pictograms: Not applicable.

Signal Word: Not signal word.

Health Hazards: Not applicable.

Precautionary statements: P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+352 IF ON SKIN: Wash with soap and water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P501 Dispose of contents/container according to local regulations

LAST REVISION DATE: February 2018

3. COMPOSITION / INFORMATION OF INGREDIENTS

CAS Registry Number™: 2099702-77-7

IUPAC Chemical name: (2-Methyl-6-((E)-(4-((E)-phenyldiazenyl)naphthalen-1-yl)diazenyl)-2,3-dihydro-1H-perimidin-2-yl)methyl 5-((3aR,4R,6aS)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanoate

CA Index Name : 1H-Thienol[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-, [2,3-dihydro-2-methyl-6-[(1E)-2-[4-[(1E)-2-phenyldiazenyl]-1-naphthalenyl]diazenyl]-1H-perimidin-2-yl]methyl ester, (3aR,4R,6aS)-
Synonym : GL13, LG13
M.W. : 698,85

4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash off skin immediately with plenty of water, using soap. If persistent irritation is apparent, obtain medical advice immediately.

After eye contact: Immediately rinse the eyes with plenty of water. If persistent irritation is apparent, obtain medical advice immediately.

After ingestion: Rinse mouth with water. Give a glass/cup of milk/water to drink. Obtain medical advice immediately.

4.2 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE - FIGHTING MEASURES

Extinguishing media: Use fire extinguishing media suitable for surrounding conditions. CO₂, foam steady in alcohol, dry chemical, water jet.

Combustion products: CO/CO₂, nitrogen oxides (NO_x). Ambient fire may liberate hazardous vapours.

Special protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid formation of dust. Do not inhale dust. Provide proper ventilation. Remove all sources of ignition. Large spillages should be transferred to a suitable container and recovered or disposed of in accordance with local regulations.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Pick up mechanically. Avoid generation of dusts. Clean up affected area.

Reference to other sections: No dangerous substances are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Handling

Precautions for safe handling: Provide suction extractors if dust is formed.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store at a room temperature.

Requirements to be met by storerooms and receptacles: Once the container is opened reconstitute in adequate amount of 100% Ethanol (for more information refer to datasheet of the reagent. If bottle is changed, store in a dark bottle, protected from light and in a full sealed container.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container sealed.

Recommended storage temperature: Store at room temperature.

Specific end use(s): For research use. For detection of senescent cells. For staining lipofuscin.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures: Change contaminated clothing.

Respiratory protection: Required when dusts are generated. Filter P1.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Protective gloves should be according to E.C. Regulation 89/689/EEC and standards of EN 374.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

Eye protection: Wear safety glasses.

Body protection: Protective work clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance

Form: Solid.

Colour: Black.

Odor: Odorless.

Odor threshold: Not determined.

pH-value: Not applicable

Change in condition

Melting point/Melting range: 152–5 °C

Boiling point/Boiling range: Undetermined.

Flash Point (closed cup): Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature

Decomposition temperature: Not determined.

Self-igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not applicable.

Density: Not determined.

Relative density: Not determined.

Vapour density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with water: Insoluble.
Solubility in other solvents (100%): Soluble in ethanol.
Segregation coefficient (n-octanol/water): Not determined.

Viscosity

Dynamic: Not applicable.
Kinematic: Not applicable.
Organic solvents: Not determined.
Solids content: 100.0 %

9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: Not data available.

Chemical stability: Stable under indicated specifications for storage conditions and specified usage.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available. It is recommended to avoid highly oxidative means.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL DATA

11.1 Information on toxicological effects

Acute toxicity: No data available.

Primary irritant effect:

on the skin: No data available.

on the eye: No data available.

After inhalation: No data available.

Sensitization: No data available.

11.2 Additional toxicological information

When used and handled according to provided specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the E.C. Regulation 1272/2008.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

12.2 Behavior in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information: No data available.

General notes: Do not allow to enter waters, waste water, or soil.

12.3 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.4 Other adverse effects

No further relevant information available.

13. DISPOSABLE CONSIDERATIONS

Waste treatment methods

Recommendation: Chemicals must be disposed of in compliance with the respective national regulations.

Uncleaned packaging: Disposal must be made according to official regulations. Packaging that may not be cleansed is to be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

UN-Number

ADR, ADN, IMDG, IATA: -

UN proper shipping name

ADR, ADN, IMDG, IATA: -

Transport hazard class(es)

ADR, ADN, IMDG, IATA Class: -

Packing group

ADR, IMDG, IATA: -

Environmental hazards

Marine pollutant: No

Special precautions for user: No need for special precautions.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": -

15. REGULATORY INFORMATION

The present Safety Datasheet is complying with E.C. Regulation 1272/2008.

Safety, health and environmental regulations/legislation specific for the product: No further relevant information available.

Chemical safety assessment: No Chemical Safety Assessment has been carried out for this product by the supplier.

16. OTHER INFORMATION

16.1 Intended use

For research use.

16.2 Recommended uses and restrictions

For further information about methods of application and video tutorial, please refer to specific advice provided in technical data sheets available from the manufacturer at info@sentragortechnology.com or at www.sentragortechnology.com

16.3 Additional information

This information is based on our present knowledge. The information is given and 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 or technical datasheet. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Since the use of this information and the conditions of use of the product are not within the control of Arriani Pharmaceuticals S.A., it is the user's obligation to determine conditions of safe use of the product. For further information, please refer to specific advice provided in technical data sheets if available from the manufacturer at the address indicated.

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February 2018

