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Safety Data Sheet acc. to OSHA HCS

Date of issue: 11/14/2024

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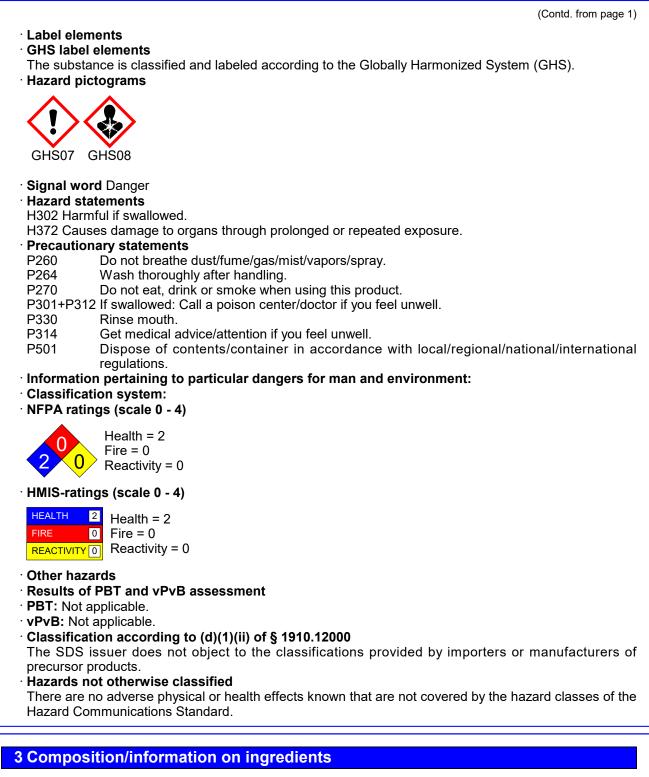
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Product identifier	
Trade name: <u>PSI-7977</u>	
Synonym	
N-[[P(S),2'R]-2'-deoxy-2'-fluoro-2'-meth GI-7977	yl-P-phenyl-5'-uridylyl]-L-alanine, 1-methylethyl ester
Sofosbuvir	
CAS Number:	
1190307-88-0	
Other means of identification	
Article number: 15402	
EC number:	
695-717-4 Application of the substance / the m	ixture
	or human or veterinary diagnostic or therapeutic use.
•	
Details of the supplier of the safety of Manufacturer/Supplier:	
Cayman Chemical Co.	
1180 E. Ellsworth Rd.	
Ann Arbor, MI 48108	
USA	
Information department: Product safe	ety department
Emergency telephone number:	074 0005
During normal opening times: +1 (734) US/CANADA: 800-424-9300	971-3335
Outside US/CANADA: 703-741-5970	
Hazard(s) identification	
Classification of the substance or m	ivturo
	ixture
GHS08 Health hazard	
Specific target organ toxicity (repeated	exposure) 1 H372 Causes damage to organs throu
	prolonged or repeated exposure.
· · · · · · · · · · · · · · · · · · ·	
GHS07	
Acute toxicity - oral 4	H302 Harmful if swallowed.

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- · Chemical characterization: Substances
- · CAS No. Description
- 1190307-88-0 PSI-7977

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Identification number(s)

· EC number: 695-717-4

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.
- · Reference to other sections

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

Precautions for safe handling

No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.re.

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- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- **Storage:** Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Control parameters
- Components with limit values that require monitoring at the workplace: Not required. • Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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.

• Eye protection:



Tightly sealed goggles

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9 Physical and chemical properties	
· Information on basic physical and chemic	al properties
General Information	
· Physical state	Solid
· Color:	Not determined.
· Odor:	Characteristic
· Structural Formula	C22H29FN3O9P
Molecular Weight	529.5 g/mol
Storage Buffer	g
Odor threshold:	Not determined.
· Formulation	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flammability:	Product is not flammable.
• Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
[·] Decomposition temperature:	Not determined.
· pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
· SOLUBILITY	DMF: 20 mg/ml; DMSO: 20 mg/ml; Ethanol: 25 mg/
SOLOBILITI	ml; PBS (pH 7.2): 0.2 mg/ml
· Dynamic:	Not applicable.
· Solubility in / Miscibility with	Not applicable.
· Water:	Not determined.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	
• •	Not applicable.
· Vapor pressure:	Not determined
· Density: · Polotivo denoity	Not determined.
· Relative density	Not determined.
 Vapor density Particle characteristics 	Not applicable. Not determined.
	Not determined.
· Other information	
· Appearance:	
· Form:	Solid
Important information on protection of he	alth
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Change in condition	
· Evaporation rate	Not applicable.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

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

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products:
- carbon dioxide, carbon monoxide, hydrogen fluoride, nitrogen oxides

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information
- No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· UN-Number · DOT, IMDG, IATA	not regulated	
 UN proper shipping name DOT, IMDG, IATA 	not regulated	
· Transport hazard class(es)		
[·] DOT, ADN, IMDG, IATA [·] Class	not regulated	
 Packing group DOT, IMDG, IATA 	not regulated	
· Environmental hazards:	Not applicable.	
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	x II of Not applicable.	
· Special precautions for user	Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to

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(Contd. from page 7) be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy o the information contained herein.
 Department issuing SDS: Environment protection department. Contact: - Date of previous version 09/28/2022 Date of preparation 11/14/2024 Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit Acute toxicity - oral 4: Acute toxicity – Category 4 Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1 • * Data compared to the previous version altered.