

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 10/15/2024

Revision date 10/15/2024

Page 1/8

### **1** Identification · Product identifier · Trade name: API-1 · Synonym 4-amino-5,8-dihydro-5-oxo-8-β-D-ribofuranosyl-pyrido[2,3-d]pyrimidine-6-carboxamide NSC 177223 · CAS Number: 36707-00-3 · Other means of identification · Article number: 22081 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cavman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

#### · Classification of the substance or mixture



GHS06 Skull and crossbones

Acute toxicity - oral 3 H301 Toxic if swallowed.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

(Contd. on page 2)

US

Date of issue: 10/15/2024

Revision date 10/15/2024

#### Trade name: API-1

	(Contd. from page 1)
· Hazard sta	
H301 Toxic	; if swallowed.
• Precaution	nary statements
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P310	) If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
<ul> <li>Informatio</li> </ul>	n pertaining to particular dangers for man and environment:
Classificat	ion system:
· NFPA ratin	igs (scale 0 - 4)
	Health = 2
	Fire = 0
	Reactivity = 0
· HMIS-ratin	gs (scale 0 - 4)
HEALTH	<sup>2</sup> Health = 2
	$\frac{1}{10}$ Fire = 0
	o Reactivity – 0
· Other haza	ards
• • • • • • • • • • • • •	PBT and vPvB assessment
· PBT: Not a	
· vPvB: Not	
	ion according to (d)(1)(ii) of § 1910.12000
	ssuer does not object to the classifications provided by importers or manufacturers of
precursor p	
	ot otherwise classified
	no adverse physical or health effects known that are not covered by the hazard classes of the
	mmunications Standard.
3 Compos	ition/information on ingredients
	characterization: Substances
· CAS No. D	
36707-00-3	
30707-00-0	

## 4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.

(Contd. on page 3)

Date of issue: 10/15/2024

Trade name: API-1

- 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 Thorough dedusting.
- · 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.

(Contd. on page 4)

(Contd. from page 2)

Revision date 10/15/2024

<sup>-</sup> US

Date of issue: 10/15/2024

Revision date 10/15/2024

#### Trade name: API-1

(Contd. from page 3)

Personal protective equipment:
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

· Breathing equipment: Not required.

#### Protection of hands:

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: Not required.

## **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	C13H15N5O6
· Molecular Weight	337.3 g/mol
Storage Buffer	
· Odor threshold:	Not determined.
· Formulation	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	Undetermined.
· Flammability:	Product is not flammable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
· SOLUBILITY	DMF: slightly soluble; DMSO: 2 mg/ml
· Dynamic:	Not applicable.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
· Water:	Not determined.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Vapor pressure:	Not applicable.
· Vapor pressure:	
· Density:	Not determined.
· Relative density	Not determined.
	(Contd. on page 5)

(Contd. on page 5)

Date of issue: 10/15/2024

Revision date 10/15/2024

Trade name: API-1

	(Contd. from page 4)
· Vapor density	Not applicable.
• Particle characteristics	Not determined.
· Other information	
· Appearance:	
· Form:	Solid
<ul> <li>Important information on protection of healt</li> </ul>	h
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.
- · 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, 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.

(Contd. on page 6)

٠Us

Date of issue: 10/15/2024

Revision date 10/15/2024

(Contd. from page 5)

#### Trade name: API-1

· vPvB: Not applicable.

- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

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

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, IMDG, IATA	UN2811
<ul> <li>UN proper shipping name</li> <li>DOT</li> <li>IMDG</li> <li>IATA</li> </ul>	Toxic solids, organic, n.o.s. (API-1) TOXIC SOLID, ORGANIC, N.O.S. (API-1) Toxic solid, organic, n.o.s. (API-1)
· Transport hazard class(es)	
· DOT	
TOXIC 6	
· Class	6.1 Toxic substances
<sup>.</sup> Label	6.1
· Class	6.1 Toxic substances
· Label	6.1
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	Not applicable.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
	(Contd. on page

Date of issue: 10/15/2024

Revision date 10/15/2024

Trade name: API-1

	(Contd. from page 6
Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
IATA Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category	Warning: Toxic substances : 60 F-A,S-A A
UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (API-1) 6.1, III

## **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

(Contd. on page 8)

ÚS -

Date of issue: 10/15/2024

Revision date 10/15/2024

#### Trade name: API-1

(Contd. from page 7) protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of previous version 04/28/2022
- Date of preparation 10/15/2024
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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 3: Acute toxicity - Category 3 \*\* Data compared to the previous version altered.