

*

Safety Data Sheet acc. to OSHA HCS

Date of issue: 10/08/2024

Revision date 10/08/2024

Page 1/8

| Product identifier | |
|--|---|
| Froduct identifier | |
| [·] Trade name: <u>AN-2690</u> | |
| Synonym 5-fluoro-1,3-dihydro-1-hydro | ovu-2 1-benzovahorole |
| Tavaborole | |
| · CAS Number: | |
| 174671-46-6 • Other means of identifica | tion |
| • Article number: 23101 | |
| • EC number: 23101 | |
| 690-763-1 | |
| Application of the substa | |
| | n use - Not for human or veterinary diagnostic or therapeutic use. |
| Details of the supplier of Manufacturer/Supplier: | the safety data sheet |
| Cayman Chemical Co. | |
| 1180 E. Ellsworth Rd. | |
| Ann Arbor, MI 48108 | |
| USA | |
| Information department: Emergency telephone nu | |
| During normal opening time | |
| US/CANADA: 800-424-930 | 0 |
| Outside US/CANADA: 703- | -741-5970 |
| | |
| | |
| 2 Hazard(s) identificati | on |
| 2 Hazard(s) identificati Classification of the subs | |
| · Classification of the subs | stance or mixture |
| | stance or mixture |
| • Classification of the subs | stance or mixture |
| · Classification of the subs | stance or mixture |
| Classification of the subs GHS05 Corrosion Eye damage 1 | stance or mixture |
| • Classification of the subs | stance or mixture |
| Classification of the subs GHS05 Corrosion Eye damage 1 GHS07 | stance or mixture N H318 Causes serious eye damage. |
| Classification of the subs GHS05 Corrosion Eye damage 1 GHS07 Acute toxicity - oral 4 | H318 Causes serious eye damage. H302 Harmful if swallowed. |
| Classification of the subs GHS05 Corrosion Eye damage 1 GHS07 Acute toxicity - oral 4 Acute toxicity - oral 4 | H318 Causes serious eye damage. H302 Harmful if swallowed. H312 Harmful in contact with skin. |
| Classification of the subs GHS05 Corrosion Eye damage 1 GHS07 Acute toxicity - oral 4 | H318 Causes serious eye damage. H302 Harmful if swallowed. H312 Harmful in contact with skin. |

Date of issue: 10/08/2024

Revision date 10/08/2024

Trade name: AN-2690

| | (Coni | td. from page 1) |
|-------------------------------|--|-------------------|
| · Label element | ts | |
| GHS label eler | | |
| The substance • Hazard pictog | is classified and labeled according to the Globally Harmonized System (GHS rams | 5). |
| $\wedge \wedge$ | | |
| LE Z | | |
| | | |
| GHS05 GHS | 607 | |
| · Signal word Da | Danger | |
| Hazard statem | | |
| | 332 Harmful if swallowed, in contact with skin or if inhaled. | |
| H315 H318 | Causes skin irritation. Causes serious eye damage. | |
| · Precautionary | | |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray | |
| P264 | Wash thoroughly after handling. | |
| P270 | Do not eat, drink or smoke when using this product. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection | tion/hearing |
| P301+P312 | protection. If swallowed: Call a poison center/doctor if you feel unwell. | |
| P302+P352 | If on skin: Wash with plenty of water. | |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathir | ıa. |
| | 338 If in eyes: Rinse cautiously with water for several minutes. Remove cont | |
| | present and easy to do. Continue rinsing. | |
| P310 | Immediately call a poison center/doctor. | |
| P321 | Specific treatment (see on this label). | |
| P330 | Rinse mouth. | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. | |
| P332+P313 P501 | Dispose of contents/container in accordance with local/regional/national/ | /international |
| 1 301 | regulations. | International |
| | ertaining to particular dangers for man and environment: | |
| Classification | | |
| NFPA ratings (| (scale 0 - 4) | |
| He | ealth = 3 | |
| | ire = 0 | |
| | eactivity = 0 | |
| · HMIS-ratings (| (scale 0 - 4) | |
| HEALTH *3 | Health = *3 | |
| | Fire = 0 | |
| | Reactivity = 0 | |
| · Other hazards | | |
| | , T and vPvB assessment | |
| • PBT: Not applie | | |
| · vPvB: Not appl | | |
| | according to (d)(1)(ii) of § 1910.12000 | |
| The SDS issue | er does not object to the classifications provided by importers or manu | facturers of |
| precursor produ | | antid on norre 2) |
| | | ontd. on page 3) |

US

Date of issue: 10/08/2024

Revision date 10/08/2024

(Contd. from page 2)

Trade name: AN-2690

· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description
- 174671-46-6 AN-2690 · Identification number(s)
- EC number: 690-763-1

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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: 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: Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Use neutralizing agent.

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

(Contd. on page 4)

US

Date of issue: 10/08/2024

Revision date 10/08/2024

Trade name: AN-2690

(Contd. from page 3)

- 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.
- Ensure good ventilation/exhaustion at the workplace.
- 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: Keep receptacle tightly sealed.
- **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.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin. Avoid contact with the eyes and skin.

- · Breathing equipment:
- 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

(Contd. on page 5)

US

Date of issue: 10/08/2024

Revision date 10/08/2024

Trade name: AN-2690

(Contd. from page 4)

• 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

| Information on basic physical and chemic General Information | ai properties |
|---|---|
| Physical state | Solid |
| Color: | Not determined. |
| Odor: | Characteristic |
| Structural Formula | C7H6BFO2 |
| Molecular Weight | 151.9 g/mol |
| Storage Buffer | io no gritor |
| 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: 33 mg/ml; DMSO: 3 mg/ml; Ethanol: 33 mg/ml |
| Dynamic: | Not applicable. |
| Solubility in / Miscibility with | |
| Water: | Not determined. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Vapor pressure: | Not applicable. |
| Vapor pressure: | |
| Density: | Not determined. |
| Relative density | Not determined. |
| Vapor density | Not applicable. |
| Particle characteristics | Not determined. |
| Other information | |
| Appearance: | |
| Form: | Solid |

-US

Date of issue: 10/08/2024

Revision date 10/08/2024

Trade name: AN-2690

(Contd. from page 5)

- Important information on protection of health and environment, and on safety.
- Ignition temperature:
- Danger of explosion:
- · Change in condition
- · Evaporation rate

Not determined. Product does not present an explosion hazard.

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:
- boron oxides, carbon dioxide, carbon monoxide, hydrogen fluoride

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- · 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.

(Contd. on page 7)

US -

Date of issue: 10/08/2024

Revision date 10/08/2024

(Contd. from page 6)

Trade name: AN-2690

· 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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.

| 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 | د II of |
| MARPOL73/78 and the IBC Code | 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.

(Contd. on page 8)

US -

Date of issue: 10/08/2024

Revision date 10/08/2024

(Contd. from page 7)

Trade name: AN-2690

- · 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 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 04/19/2022
- · Date of preparation 10/08/2024

· 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 Skin irritation 2: Skin corrosion/irritation - Category 2 Eye damage 1: Serious eye damage/eye irritation - Category 1 * Data compared to the previous version altered.