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Safety Data Sheet acc. to OSHA HCS

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· Product identifier		
 Trade name: <u>Afloqualone</u> Synonym 6-amino-2-(fluoromethyl)-3-(2-methylphenyl)-4(3HHQ-495 CAS Number: 56287-74-2 Other means of identification 	┨)-quinazolinone	
 Article number: 21834 EC number: 109-719-5 Application of the substance / the mixture This product is for research use - Not for human of the substance / the mixture 	or veterinary diagnostic or therapeutic ι	use.
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA 	t	
 Information department: Product safety departre 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.	
GHS07		
	H315 Causes skin irritation. H319 Causes serious eye irritation.	

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· Label element		.,
· GHS label eler		
	is classified and labeled according to the Globally Harmonized System (GHS).	
· Hazard pictog		
• • • • • • • • • • • • • • • • • • •		
GHS06 GHS	07	
C iana al sus and D		
 Signal word D Hazard statem 		
H301 Toxic if s		
H315 Causes s		
	serious eye irritation.	
H335 May caus	se respiratory irritation.	
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 P280	Use only outdoors or in a well-ventilated area.	
P301+P310	Wear protective gloves / eye protection / face protection. If swallowed: Immediately call a poison center/doctor.	
P321	Specific treatment (see on this label).	
P330	Rinse mouth.	
P302+P352	If on skin: Wash with plenty of water.	
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,	if
5040	present and easy to do. Continue rinsing.	
P312	Call a poison center/doctor if you feel unwell.	
P362+P364 P332+P313	Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/internation	al
	regulations.	
	ertaining to particular dangers for man and environment:	
Classification		
· NFPA ratings	(scale 0 - 4)	
н	ealth = 2	
	re = 0	
	eactivity = 0	
· HMIS-ratings (scale U - 4)	
HEALTH 2	lealth = 2	
FIRE 0	Fire = 0	
REACTIVITY 0 F	Reactivity = 0	
• Other hazards		
• PBT: Not appli	T and vPvB assessment	
• vPvB: Not appl		
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• Classification according to (d)(1)(ii) of § 1910.1200 The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

• 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
- 56287-74-2 Afloqualone Identification number(s)
- EC number: 109-719-5

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. If symptoms persist, consult a doctor.

- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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. Ensure adequate ventilation.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.

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- 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: 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 eyes and skin.

· 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.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

General Information Physical state	Solid
Color:	Not determined.
Odor:	Characteristic
Structural Formula	C16H14FN3O
Molecular Weight	283.3 g/mol
Storage Buffer	200.0 g///01
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: 20 mg/m
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
Important information on protection of hea	
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Daliger of Explosion.	r rouder does not present an explosion hazard.

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· 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, strong reducing agents, strong bases, strong acids
- · Hazardous decomposition products:
- carbon dioxide, carbon monoxide, hydrogen fluoride, nitrogen oxides

11 Toxicological information

- · RTECS Number VA2350000
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 249 mg/kg (rat)

Intraperitoneal LD50 385 mg/kg (rat)

Subcutaneous LD50 823 mg/kg (rat)

Primary irritant effect:

- · on the skin: Irritant to skin and mucous membranes.
- on the eye: 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.

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· 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.

UN-Number	
DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (Afloqualone)
IMDG	TOXIC SOLID, ORGANIC, N.O.S. (Afloqualone)
ΙΑΤΑ	Toxic solid, organic, n.o.s. (Afloqualone)
Transport hazard class(es)	
DOT	
TOXIC 8	
Class	6.1 Toxic substances
Label	6.1
Class	6.1 Toxic substances
Label	6.1
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.

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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 (AFLOQUALONE), 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

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(Contd. protection based on the actual conditions of use. While this SDS is based on technical data be reliable, Cayman Chemical Company assumes no responsibility for the completeness or a the information contained herein.	
the information contained herein. Department issuing SDS: Environment protection department. Contact: - Date of previous version 04/18/2022 Date of preparation 01/29/2025 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Ret: Recommended Exposure Limit Acute toxicity - oral 3: Acute toxicity – Category 2 Eye irritation 22: Skin corrosion/irritation – Category 2A Specific target organ toxicity (single exposure) – Category 3 * Data compared to the previous version altered.	
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