

Printing date 06/23/2021

Revision date 06/23/2021

Product identifi	er
Trade name: <u>Ar</u>	halofenate
This product is f	34575 <b>he substance / the mixture</b> or research use - Not for human or veterinary diagnostic or therapeutic use. It is the he purchaser to determine suitability for other applications.
Details of the su Manufacturer/S Cayman Chemic 1180 E. Ellsworth Ann Arbor, MI 48 USA	al Co. n Rd.
Emergency tele During normal or	partment: Product safety department phone number: pening times: +1 (734) 971-3335
US/CANADA: 80 Outside US/CAN	0-424-9300 ADA: 703-741-5970
Outside US/CAN	ADA: 703-741-5970
Outside US/CAN Hazard(s) ide	ADA: 703-741-5970
Outside US/CAN Hazard(s) ide	ADA: 703-741-5970
Outside US/CAN Hazard(s) ide Classification o	ADA: 703-741-5970
Outside US/CAN Hazard(s) ide Classification o GHS06	ADA: 703-741-5970
Outside US/CAN Hazard(s) ide Classification o GHS06	ADA: 703-741-5970 entification f the substance or mixture
Outside US/CAN Hazard(s) ide Classification o GHS06 Acute Tox. 3	ADA: 703-741-5970
Outside US/CAN Hazard(s) ide Classification o GHS06 Acute Tox. 3 GHS09 Aquatic Acute 1	ADA: 703-741-5970 entification f the substance or mixture 5 Skull and crossbones H301 Toxic if swallowed.
Outside US/CAN Hazard(s) ide Classification o GHS06 Acute Tox. 3 GHS09 Aquatic Acute 1	ADA: 703-741-5970 entification f the substance or mixture 5 Skull and crossbones H301 Toxic if swallowed. 9 Environment H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
Outside US/CAN Hazard(s) ide Classification o GHS06 Acute Tox. 3 GHS09 Aquatic Acute 1 Aquatic Chronic	ADA: 703-741-5970 entification f the substance or mixture 5 Skull and crossbones H301 Toxic if swallowed. 9 Environment H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.

Printing date 06/23/2021

Revision date 06/23/2021

Trade name: Arhalofenate

· Hazard pictog	(Contd. from page 1)
GHS06 GHS	607 GHS09
· Signal word D · Hazard statem	
H301 Toxic if s	
	serious eye irritation.
	c to aquatic life. c to aquatic life with long lasting effects.
· Precautionary	
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· NFPA ratings	(scale 0 - 4)
н	ealth = 2
F	ire = 0
<b>2</b> 0 R	eactivity = 0
· HMIS-ratings	(scale 0 - 4)
FIRE 0	Health = 2 Fire = 0 Reactivity = 0
· Other hazards	

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

# **3** Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 24136-23-0 Arhalofenate

(Contd. on page 3)

US

Printing date 06/23/2021

Revision date 06/23/2021

(Contd. from page 2)

#### Trade name: Arhalofenate

- Identification number(s)
- · EC number: 689-413-0

### 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. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. 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: Inform respective authorities in case of seepage into water course or sewage system. 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 item 13. **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. Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- PAC-3: Substance is not listed.

(Contd. on page 4)

Printing date 06/23/2021

Revision date 06/23/2021

(Contd. from page 3)

#### Trade name: Arhalofenate

7 Handling and storage

- · Handling:
- · 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:
- · 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

· Additional information about design of technical systems: No further data; see item 7.

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

• 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:



Tightly sealed goggles

(Contd. on page 5)

Printing date 06/23/2021

Revision date 06/23/2021

### Trade name: Arhalofenate

(Contd. from page 4)

9 Physical and chemical properties				
· Information on basic physical and chemical properties				
General Information				
· Appearance: Form:	Crystelling			
Color:	Crystalline Not determined.			
· Odor:	Characteristic			
· Structural Formula	C19H17CIF3NO4			
· Molecular Weight	415.8 g/mol			
· Odor threshold:	Not determined.			
· pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	Undetermined.			
· Flash point:	Not applicable.			
· Flammability (solid, gaseous):	Product is not flammable.			
· Decomposition temperature:	Not determined.			
· Auto igniting:	Not determined.			
· Danger of explosion:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapor pressure:	Not applicable.			
· Density:	Not determined.			
· Relative density	Not determined.			
<ul> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not applicable.			
•				
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not determined.			
	· Partition coefficient (n-octanol/water): Not determined.			
· Viscosity:				
Dynamic: Kinematic:	Not applicable.			
SOLUBILITY	30 mg/ml DMSO			
	No further relevant information available.			
· Other information				

# **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.

(Contd. on page 6)

Printing date 06/23/2021

Revision date 06/23/2021

(Contd. from page 5)

#### Trade name: Arhalofenate

- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products:
- carbon oxides, hydrogen clhoride, 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: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · 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.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

### Waste treatment methods

· Recommendation:

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

(Contd. on page 7)

US

Printing date 06/23/2021

Revision date 06/23/2021

(Contd. from page 6)

Trade name: Arhalofenate

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

UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name DOT IMDG IATA	Toxic solids, organic, n.o.s. (Arhalofenate) TOXIC SOLID, ORGANIC, N.O.S. (Arhalofenate) Toxic solid, organic, n.o.s. (Arhalofenate)
Transport hazard class(es)	
DOT	
Class Label	6.1 Toxic substances 6.1
Class Label	6.1 Toxic substances 6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Environmentally hazardous substance, solid
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Toxic substances 60 F-A,S-A A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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

Printing date 06/23/2021

Revision date 06/23/2021

#### Trade name: Arhalofenate

(Contd. from page 7)

· 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.
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (ARHALOFENATE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

## **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.
- · Proposition 65
- 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 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 preparation / last revision 06/23/2021 / -
- · 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)

(Contd. on page 9)

U

Printing date 06/23/2021

Revision date 06/23/2021

### Trade name: Arhalofenate

(Contd. from page 8) 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 REL: Recommended Exposure Limit Acute Tox. 3: Acute toxicity – Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

US -