

Printing date 04/13/2023

Revision date 04/13/2023

Page 1/9

1 Identification

- · Product identifier
- Trade name: ARQ 621
- · Article number: 34329
- · CAS Number: 1095253-39-6
- · 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: Cayman 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

Classification of the substance or mixture	
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lastir effects.
GHS07 Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.
Label elements	

US

Printing date 04/13/2023

Revision date 04/13/2023

Trade name: ARQ 621

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GHS07 GHS	, Ng
Signal word W	
Hazard statem	
H302 Harmful if	
H315 Causes s	
	erious eye irritation.
	e respiratory irritation.
	to aquatic life with long lasting effects.
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.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,
022010242	present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention.
P332+P313	
P362+P364 P337+P313	Take off contaminated clothing and wash it before reuse.
P391	If eye irritation persists: Get medical advice/attention.
P403+P233	Collect spillage.
P405+P235	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
P405 P501	Dispose of contents/container in accordance with local/regional/national/international
FJUI	regulations.
Classification	•
NFPA ratings (



· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity = 0

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

(Contd. on page 3)

US

Printing date 04/13/2023

Revision date 04/13/2023

Trade name: ARQ 621

(Contd. from page 2)

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 1095253-39-6 ARQ 621
- 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: 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: Immediately call a doctor.
- · Information for 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:

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: Ensure adequate ventilation.
- 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 04/13/2023

Revision date 04/13/2023

(Contd. from page 3)

Trade name: ARQ 621

7 Handling and storage

- · Handling:
- 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.
- · 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

- Additional information about design of technical systems: No further data; see section 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 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.

(Contd. on page 5)

US

Printing date 04/13/2023

Revision date 04/13/2023

(Contd. from page 4)

Trade name: ARQ 621

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Solid Color: Not determined. · Odor: Characteristic · Structural Formula C28H24Cl2FN5O2 · Molecular Weight 552.4 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. · Ignition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Not determined. Lower: Upper: Not determined. · Vapor pressure: Not applicable. · Density: Not determined. · Relative density Not determined. · Vapor density Not applicable. **Evaporation rate** Not applicable. · Solubility in / Miscibility with Water: Not determined. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not applicable. **Kinematic:** Not applicable. SOLUBILITY DMSO: soluble Other information No further relevant information available.

(Contd. on page 6)

US

Printing date 04/13/2023

Revision date 04/13/2023

Trade name: ARQ 621

(Contd. from page 5)

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 acids/alkalis, strong oxidising/reducing agents.
- Hazardous decomposition products: Under fire conditions, may decompose and emit toxic fumes.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- 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:
- · 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.
- · 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.

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

(Contd. on page 7)

Printing date 04/13/2023

Revision date 04/13/2023

Trade name: ARQ 621

(Contd. from page 6)

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.

IMDG (ARQ 621) ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (ARQ 621) Transport hazard class(es) DOT Impose 9 Miscellaneous dangerous substances and articles 9 Class 9 Miscellaneous dangerous substances and articles 9 IMDG, IATA 9 Miscellaneous dangerous substances and articles 9 Class 9 Miscellaneous dangerous substances and articles 9 Packing group DOT, IMDG, IATA III Environmental hazards: Marine pollutant: Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree) Symbol (fish and tree) Special precautions for user Warning: Miscellaneous dangerous substances and articles Hazard identification number (Kemler code): 90 EMS Number: F-A,S-F Stowage Category A	UN-Number DOT, IMDG, IATA	UN3077
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Printing date 04/13/2023

Revision date 04/13/2023

Trade name: ARQ 621

	(Contd. from page 7
 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: 400 kg On cargo aircraft only: 400 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.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ARQ 621), 9, 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.
- · 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

(Contd. on page 9)

Printing date 04/13/2023

Revision date 04/13/2023

Trade name: ARQ 621

(Contd. fro be reliable, Cayman Chemical Company assumes no responsibility for the completeness or acc the information contained herein.	om page 8) curacy of
 Department issuing SDS: Environment protection department. Contact: - Date of preparation / last revision 04/13/2023 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 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2: Skin corrosion/irritation - Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 * Data compared to the previous version altered. 	
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