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SAFETY DATA SHEET

1. Product and Company Identification

1.1 Product Identifier

Product code: ATR05
Product name: Ro52 antigen – human recombinant
CAS number Not relevant

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For research use or further manufacturing use only.

1.3 Details of the supplier of the safety data sheet

Company name: AROTEC Diagnostics Limited
Address: 207 Gracefield Road, Lower Hutt 5010, New Zealand
Telephone/Fax: Telephone: +64-4-5690361, Fax: +64-4-5690366
e-mail (competent person): info@arodia.com

1.4 Emergency telephone

0800-764-766 (NZ); for international world directory of poison centres with local phone numbers refer:
http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/#.VERM5zTweO4.email

2. Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture

Signal Word	Not required
Pictograms	Not required
Hazard Statements	Not required
Precautionary Statements	Not required

2.3 Other hazards

PBT and vPvB assessment	Not required
Endocrine disrupting properties	Does not contain an endocrine disruptor

3. Composition/Information on Ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description hazardous ingredients of the mixture.

Name	GHS classification	CAS Registry Number	Concentration	Pictograms
2-Methyl-4-Isothiazolin-3-one hydrochloride	Acute toxicity, Oral (category C), H301 Acute toxicity, Inhalation (Category B), H330 Acute toxicity, Dermal (Category C), H311 Skin corrosion (Category A), H318 Serious eye damage (Category A), H318 Skin sensitisation (Category B), H317 Aquatic toxicity (Acute or chronic) (Category A). H410	26172-54-3	<0.008%	

Name	GHS classification	CAS Registry Number	Concentration	Pictograms
Sodium dodecylsulphate (SDS)	Skin irritation (category A) , H315 Acute toxicity, Oral (category D), H302 Acute toxicity, Dermal (category C), H311 Eye irritation (Category A), H319 Aquatic toxicity (Acute or chronic) (category D), H401	151-21-3	0.02%	

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4. First Aid Measures

4.1 Description of first aid measures

General advice:	Consult a physician, show this Safety Data Sheet to the doctor in attendance
Eye contact:	Flush immediately with plenty of water then consult a physician
Skin contact:	Remove contaminated clothing and shoes immediately, wash with soap and plenty of water
Inhalation:	Move into a fresh air environment
Ingestion:	Do not induce vomiting, rinse mouth with water, consult a physician

4.2 Most important symptoms and effects, both acute and delayed

This information is not available

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available

5. Fire-Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO2), use extinguishing measures that are appropriate to the surrounding environment

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: None known

5.3 Advice for firefighters

Precautions for fire-fighters:
Non-combustible.
Wear self-contained breathing apparatus for firefighting if necessary.
Coordinate firefighting measure the fire surrounds.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Non-emergency personnel:	Remove persons to safety, ensure adequate ventilation, wear suitable personal protective equipment to prevent skin, eyes or clothing contamination.
Emergency Responders:	Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Do not let product enter drains and ground water.
Retain contaminated washing water and dispose of it.
If substance has entered a water course or sewer, inform the responsible authority

6.3 Methods & material for containment and cleaning up

Spill clean-up: Collect spill (absorbent materials) and transfer to a suitable container. Ventilate the area
Containment: Use of absorbent materials.

7. Handling and Storage

7.1 Precautions for safe handling

Measures to prevent fire, aerosol and dust generation:
Use local and general ventilation.
No specific notes / details available

Notes on general hygiene:
Do not eat, drink, smoke in work areas, wash hands after use, use of a skin barrier is recommended.

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7.2 Conditions for safe storage including safe storage

Flammability hazard	None
Incompatibility	See section 10
Other advice	Keep away from food, drink and animal feed.
Ventilation	Provide sufficient ventilation
Storge vessels	Keep containers tightly closed in a cool, contained place
Packaging	Keep only in original container

7.3 Specific end uses
No information available

8. Exposure Controls/Personal Protection

8.1 Control Parameters
Exposure standards: Products do not contain any hazardous materials with workplace exposure limits

8.2 Exposure Controls
Engineering controls: Emergency showers, eyewash stations, ventilation systems
Environmental exposure: Use an appropriate container to avoid environmental contamination

Personal protection
Eye/face: Safety glasses recommended
Skin/body: Handle with gloves, wear suitable clothing such as a lab coat
Respiratory: Respiratory protection is not normally needed when using these products; use a particle respirator for nuisance exposure or when in an area with inadequate ventilation

9. Physical and Chemical Properties

9.1 Basic physical and chemical properties

Appearance:	Clear, colourless liquid/frozen liquid
Odour:	No information available
pH:	7.5
Vapour pressure:	No information available
Vapour density:	No information available
Boiling point:	No information available
Freezing point:	No information available
Solubility:	No information available
Specific gravity:	No information available
Flammability:	Not combustible

9.2 Other Information

Physical hazard class	Not relevant
Other characteristics	No additional information

10. Stability and Reactivity

10.1 Reactivity
Stable under ambient conditions

10.2 Chemical stability
Stable under anticipated storage and handling conditions

10.3 Possibility of hazardous reactions
None known

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided

10.5 Incompatible materials
There is no additional information

10.6 Hazardous decomposition
Reasonably anticipated hazardous decomposition products are not known.

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11. Toxicological Information

11.1 Information on toxicological effects

Classification based on the ingredients of the mixture, and according to GHS.
Acute toxicity: No information available on the complete mixture.

Name	CAS	Route	End Point	Value	Species	Source
2-Methyl-4-Isothiazolin-3-one hydrochloride	26172-54-3	Oral	LD50	175mg/kg bw	Mouse	ECHA
Sodium dodecylsulphate (SDS)	151-21-3	Oral	LD50	1200 mg/kg bw	Rat	ECHA

Skin corrosion/irritation: Classification could not be established.
Serious eye damage/irritation: Classification could not be established.
Respiratory or skin sensitisation: Classification could not be established.
Germ cell mutagenicity: Classification could not be established.
Carcinogenicity: Classification could not be established.
Reproductive toxicity Classification could not be established.
Specific target organ toxicity: (single and repeated exposure) Classification could not be established.
Aspiration hazard: No aspiration hazard

11.2 Information on other hazards

Endocrine disrupting properties Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1%.

12. Ecological Information

12.1 Toxicity

Aquatic toxicity

Classification based on the ingredients of the mixture, and according to GHS.
No information available on the complete mixture.

Name	CAS	Endpoint	Exposure Time	Value	Species	Method	Source
2-Methyl-4-Isothiazolin-3-one hydrochloride	26172-54-3	EC50	48hr	2.33mg/L	Daphina magna (Straus)	OECD Guideline 202	ECHA
Sodium dodecylsulphate (SDS)	151-21-3	Fish LC50	96hr	29mg/L	Pimephales promelas	OECD Guideline 203	ECHA
		Invertebrates EC50	48hr	5.55mg/L	Ceriodaphnia dubia	OECD Guideline 202	ECHA

12.2 Persistence and degradability

Classification based on the ingredients of the mixture, and according to GHS.
No information available on the complete mixture.

Name	CAS	Conclusion	Exposure Time	Value	Species	Method	Source
2-Methyl-4-Isothiazolin-3-one hydrochloride	26172-54-3	No readily biodegradable	28 days	2.33mg/L	Activated sludge	OECD Guideline 301B	ECHA
Sodium dodecylsulphate (SDS)	151-21-3	Readily biodegradable	28 days	n/a	n/a	OECD Guideline 301B	ECHA

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
Does not contain a PBT or vPvB substance in a concentration ≥ 0.1%.

12.6 Endocrine disrupting properties
Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1%.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal methods:	Dispose of material as hazardous waste.
Sewage Disposal:	Do not empty into drains
Contaminated packaging:	Completely emptied packages can be recycled.

14. Transport Information

14.1	**UN number:**	Not assigned
14.2	**Proper shipping name:**	Not regulated by DOT, IATA, ADR, TDG , IMDG
14.3	**Transport hazard class:**	Not assigned
14.4	**Packing group:**	Not assigned
14.5	**Environmental hazards:**	Not assigned
14.6	**Special precautions for user:**	Not assigned
14.7	**Maritime transport in bulk according to IMO instruments:**	Not assigned

15. Regulatory Information

15.1 Safety health / environment regulations / legislation specific for the substance or the mixture Relevant

This Safety Data Sheet complies with the Commission Regulation (EU) 2020/878.

15.2 Chemical Safety Assessment
No chemical safety assessment has been completed

16. Other Information

Issue Date: May 2023

Disclaimer: The information provided here is correct to the best of our knowledge however neither the above-named company nor any of its subsidiaries or distributors assumes any liability whatsoever for the accuracy or completeness of this information. The information given is designed only as a guide to safe handling, use, storage, processing, transportation and disposal and is not to be considered as a warranty for specification or performance in any particular application. Determination of suitability of any material is ultimately the sole responsibility of the user. Although certain hazards are described here, we do not guarantee that other hazards do not exist. All materials may present unknown hazards and should be handled accordingly.

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