



Safety Data Sheet

Acuitas® AMR Gene Panel PCR Master Mix

SECTION 1: Identification of the substance or mixture

Product Code: CP3402
Product Name: PCR Master Mix for Acuitas AMR Gene Panel u5.47,
for use as a laboratory chemical

Manufacturer or Supplier's Details

Company: OpGen, Inc
708 Quince Orchard Road
Gaithersburg, MD USA
+1 301 869 9683
technicalsupport@opgen.com

24-hour Emergency Response: ChemTel, Inc.
800-255-3924
Outside of the U.S. +1-813-248-0585

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Signal Word: None
Health Hazards: None
Physical Hazards: Not Classified
Environmental Hazards: Not Classified
Hazard Statements: Not Applicable

Precautionary Statements

Prevention: Not Applicable
Response: Not Applicable
Storage: Not Applicable
Disposal: Not Applicable

Other Hazards

Not Applicable

HMIS

Health: 0
Flammability: 0
Reactivity: 0



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SECTION 3: COMPOSITION OF INGREDIENTS

Chemical Name	CAS-No	EINECS-No	Weight %
Glycerol	56-81-5	--	10-30
Sodium Azide	26628-22-8	--	<0.1

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Skin contact	Rinse with plenty of water. Immediate medical attention is not required.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Ingestion:	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Inhalation:	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed:	Not Applicable
Notes to Physician:	Treat symptomatically.
Indication of any immediate medical attention and special treatment needed:	None

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical
Unsuitable extinguishing media:	No information available.
<u>Special hazards arising from the substance or mixture:</u>	No information available
Advice for fire-fighters:	Standard procedure for chemical fires

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ensure adequate ventilation Always wear recommended Personal Protective Equipment. Use personal protection equipment See Section 8 for more detail.
Environmental precautions:	No special environmental precautions required.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material.



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Reference to other Sections

See section 8 for more information

SECTION 7: HANDLING AND STORAGE

Precautions for safe Handling:

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage including any incompatibilities:

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s):

For Laboratory Use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m ³ 5 mg/m ³	None	None	None
Sodium Azide	None	None	None	None

Engineering Measures:

Ensure adequate ventilation, especially in confined areas.

Exposure Controls:

Personal Protective Equipment:

Respiratory Protection:

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand Protection:

Wear suitable gloves. Glove material: Compatible chemical-resistant gloves

Eye Protection:

Tight sealing safety goggles.

Skin and Body Protection:

Wear suitable protective clothing.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls:

No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Liquid

Odor: No data available

pH: Mixture has not been tested

Melting Point / Melting Range: °C >0 °C >32

Boiling Point / Boiling Range: °C >100 °C >212

Flash Point: °C >90 °C >160



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Autoignition Temperature:	°C Mixture has not been tested	°F Mixture has not been tested
Decomposition Temperature:	°C Mixture has not been tested	
Evaporation Rate:	No data available	°F Mixture has not been tested
Flammability (solid, gas):	Not applicable	
Upper explosion limit:	Mixture has not been tested	
Lower explosion limit:	Mixture has not been tested	
Vapor Pressure:	Mixture has not been tested	
Relative density:	Mixture has not been tested	
Specific Gravity:	No data available	
Solubility:	Soluble in water	
Partition Coefficient:	No data available	
n-octanol/water:		
Explosive Properties:	Mixture has not been tested	
Other Information:	No data available	

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None known
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous reaction has not been reported.
Conditions to Avoid:	None under normal processing.
Incompatible Materials:	Strong acids. Oxidizing agents. Acetic anhydride. Isocyanates. Ammonia. Bases
Hazardous Decomposition Products:	Carbon Oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological effects:

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Glycerol	12600 mg/kg (Rat)	No data available	>570 mg/m ³ (rat)
Sodium Azide	= 27 mg/kg (rat)	No data available	No data available

Principle Routes of Exposure:

Irritation: Conclusive but not sufficient for classification.



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Corrosivity:	Conclusive but not sufficient for classification.
Sensitization:	Conclusive but not sufficient for classification.
STOT – Single Exposure	Conclusive but not sufficient for classification.
STOT – Repeated Exposure	Conclusive but not sufficient for classification.
Carcinogenicity:	Conclusive but not sufficient for classification.
Mutagenicity:	Conclusive but not sufficient for classification.
Reproductive Toxicity:	Conclusive but not sufficient for classification.
Aspiration Hazard:	Conclusive but not sufficient for classification.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: The environmental impact of this product has not been fully investigated.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data
Glycerol	No data available	Daphnia magna EC50>500 mg/L (24h)	No data available	No data available
Sodium Azide	No data available	No data available	No data available	No data available

Persistence and Degradability:	Inherently biodegradable.
Bioaccumulative potential:	Material does not bioaccumulate.
Results of PBT and vPvB assessment:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other adverse effects:	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.



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SECTION 14: Transport Information

<u>IATA / ADR / DOT-US /IMDG</u>	Not classified as dangerous in the meaning of transport regulations.
UN Number:	Not applicable
UN Proper Shipping Name:	Not applicable
Transport Hazard Class(es):	Not applicable
Packing Group	Not applicable
<u>Environmental Hazards:</u>	Not applicable
<u>Special Precautions for User:</u>	Not applicable
<u>Transport in Bulk According to Annex II of MARPOL 73-78 and the IBC Code:</u>	Not applicable

SECTION 15: REGULATORY INFORMATION

Component	US TSCA
Glycerol 56-81-5 (10-30)	Listed
Sodium Azide 26628-22-8 (<0.1)	Listed

US Federal Regulations:

SARA 313:

This product is not regulated by SARA.

Chemical Name	CAS-No	Weight%	SARA 313- Threshold Values
SODIUM AZIDE	26628-22-8	<0.1	1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.



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SECTION 16: OTHER INFORMATION

Reason for Revision: New SDS

Revision number: A

Revision date: 13August2018

For Laboratory Use

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

“The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Safety Data Sheet