Printing date 07/24/2024

Reviewed on 07/24/2024

1 Identification

- · Product identifier
- Trade name: <u>Growth Medium for</u> <u>SLYCPxx</u>
- · Article number: ND406
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666*

2 Hazard(s) identification

· Classification of the substance or mixture

- The product is not classified, according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements
- If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTHImage: 0Health = 0FIREImage: 0Fire = 0REACTIVITYImage: 0

· Other hazards

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

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• vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components: Not Applicable

• Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	99.909%
CAS: 7757-79-1	Potassium Nitrate	0.041%
CAS: 7631-99-4	Sodium Nitrate	0.013%
CAS: 7778-77-0	Potassium Phosphate Monobasic	0.01%
CAS: 7758-11-4	Potassium Phosphate Dibasic Anhydrous	0.005%
CAS: 9002-18-0	Agar	0.005%
CAS: 7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.003%
CAS: 7681-11-0	Potassium Iodide	0.003%
CAS: 10025-77-1	Ferric Chloride Hexahydrate	0.003%
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	0.003%
CAS: 7647-14-5	Sodium Chloride	0.002%
CAS: 10035-04-8	Calcium Chloride Dihydrate	0.001%
CAS: 7446-20-0	Zinc Sulfate Heptahydrate	0.001%
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	0.001%
CAS: 10034-96-5	Manganese Sulfate Monohydrate	0.0002%
CAS: 68-19-9	cyanocobalamin (Vitamin B 12)	0.0001%
CAS: 1308-38-9	Chromium (III) Oxide 99.995%	0.0001%
CAS: 7446-08-4	selenium dioxide	0.0001%
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	0.0001%
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	0.0001%
CAS: 10043-35-3	boric acid	0.0001%
CAS: 10102-40-6	Sodium Molybdate Dihydrate	0.0001%
CAS: 13446-34-9	Manganese Chloride	0.0001%
CAS: 101712-19-0	2'3'Difluoropropiophenone	0.0001%

4 First-aid measures

• Description of first aid measures

• General information: No special measures required.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *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.
- 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:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
- *Reference to other sections* See Section 7 for information on safe handling.
- See Section 7 for information on safe nanating. See Section 8 for information on personal protection equipment.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

• Protective Action Criteria for Chemicals

CAS: 7757-79-1 Potassium Nitrate	9 mg/m ³
CAS: 7631-99-4 Sodium Nitrate	4.1 mg/m
CAS: 7778-77-0 Potassium Phosphate Monobasic	9.6 mg/m
CAS: 7758-11-4 Potassium Phosphate Dibasic Anhydrous	13 mg/m ³
CAS: 7681-11-0 Potassium Iodide	1.3 mg/m
CAS: 10025-77-1 Ferric Chloride Hexahydrate	15 mg/m ³
CAS: 10034-99-8 Magnesium Sulfate Heptahydrate	33 mg/m ³
CAS: 10035-04-8 Calcium Chloride Dihydrate	16 mg/m ³
CAS: 7446-20-0 Zinc Sulfate Heptahydrate	27 mg/m ³
CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt	30 mg/m ³
CAS: 10034-96-5 Manganese Sulfate Monohydrate	9.2 mg/m
CAS: 1308-38-9 Chromium (III) Oxide 99.995%	2.2 mg/m
CAS: 7446-08-4 selenium dioxide	0.84 mg/r
CAS: 7758-99-8 Cupric Sulfate Pentahydrate	12 mg/m ³
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	0.24 mg/r
CAS: 10043-35-3 boric acid	6 mg/m ³
CAS: 10102-40-6 Sodium Molybdate Dihydrate	3.8 mg/m
CAS: 13446-34-9 Manganese Chloride	11 mg/m³
PAC-2:	·
CAS: 7757-79-1 Potassium Nitrate	100 mg/n

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CAS: 7631-99-4	Sodium Nitrate	(Contd. of page 3) $45 mg/m^3$
	Potassium Phosphate Monobasic	110 mg/m ³
CAS: 7758-11-4	Potassium Phosphate Dibasic Anhydrous	140 mg/m ³
CAS: 7681-11-0	Potassium Iodide	100 mg/m3
CAS: 10025-77-1	Ferric Chloride Hexahydrate	39 mg/m ³
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	13 ppm
	Calcium Chloride Dihydrate	170 mg/m ³
CAS: 7446-20-0	Zinc Sulfate Heptahydrate	170 mg/m ³
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	330 mg/m ³
CAS: 10034-96-5	Manganese Sulfate Monohydrate	15 mg/m ³
CAS: 1308-38-9	Chromium (III) Oxide 99.995%	61 mg/m3
CAS: 7446-08-4	selenium dioxide	1.6 mg/m ³
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	32 mg/m ³
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	25 mg/m ³
CAS: 10043-35-3	boric acid	23 mg/m^3
CAS: 10102-40-6	Sodium Molybdate Dihydrate	34 mg/m ³
CAS: 13446-34-9	Manganese Chloride	18 mg/m ³
• PAC-3:		I
CAS: 7757-79-1	Potassium Nitrate	600 mg/m ³
CAS: 7631-99-4	Sodium Nitrate	270 mg/m ³
CAS: 7778-77-0	Potassium Phosphate Monobasic	630 mg/m ³
CAS: 7758-11-4	Potassium Phosphate Dibasic Anhydrous	830 mg/m ³
CAS: 7681-11-0	Potassium Iodide	620 mg/m3
CAS: 10025-77-1	Ferric Chloride Hexahydrate	240 mg/m ³
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	81 ppm
CAS: 10035-04-8	Calcium Chloride Dihydrate	1,100 mg/m ³
CAS: 7446-20-0	Zinc Sulfate Heptahydrate	1,000 mg/m ³
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	2,000 mg/m ³
CAS: 10034-96-5	Manganese Sulfate Monohydrate	90 mg/m ³
CAS: 1308-38-9	Chromium (III) Oxide 99.995%	370 mg/m3
CAS: 7446-08-4	selenium dioxide	9.5 mg/m ³
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	190 mg/m ³
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	150 mg/m ³
CAS: 10043-35-3	· · · · · · · · · · · · · · · · · · ·	830 mg/m ³
CAS: 10102-40-6	Sodium Molybdate Dihydrate	210 mg/m ³
	Manganese Chloride	290 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.

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- · 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: None.
- 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- · 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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: Goggles recommended during refilling.
- · Body protection: Protective work clothing

Information on basic physic General Information	cal and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Odorless	
Odor threshold:	Not determined.	

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pH-value at 20 °C (68 °F):	6.8	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	99.9 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.1 %	
Other information	No further relevant information available.	

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:* No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

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2B

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 1308-38-9 Chromium (III) Oxide 99.995%

CAS: 7446-08-4 selenium dioxide

CAS: 7791-13-1 Cobalt Chloride Hexahydrate

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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 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.

- · 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: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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Safety Data Sheet acc. to OSHA HCS

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IATA IMDG	Not regulated Not Regulated Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not regulated	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

• Section 355 (extremely h	·	
None of the ingredients is	listed.	
· Section 313 (Specific tox	ic chemical listings):	
CAS: 7757-79-1 Potass	ium Nitrate	
CAS: 10034-96-5 Mange	nese Sulfate Monohydrate	
CAS: 1308-38-9 Chron	ium (III) Oxide 99.995%	
CAS: 7446-08-4 selenii	m dioxide	
CAS: 7758-99-8 Cupric	Sulfate Pentahydrate	
CAS: 7791-13-1 Cobal	Chloride Hexahydrate	
CAS: 13446-34-9 Manga	nese Chloride	
· TSCA (Toxic Substances	Control Act):	
Water		ACTIVE
Potassium Nitrate		ACTIVE
Sodium Nitrate		ACTIVE
Potassium Phosphate Mo	nobasic	ACTIVE
		(Contd. on page

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Agar ACTI Sodium Phosphate Dibasic Anhydrous ACTI Sodium Phosphate Dibasic Anhydrous ACTI Potassium Iodide ACTI Potassium Iodide ACTI Sodium Chloride ACTI cyanocobalamin (Vitamin B 12) ACTI Chromium (III) Oxide 99.995% ACTI Selentum dioxide ACTI Boric acid ACTI Hazardous Air Pollutants CAS: 10034-96-5 Manganese Sulfate Monohydrate CAS: 7496-08-4 selenium dioxide CAS: 7476-08-4 selenium dioxide CAS: 74791-13-1 Cobalt Chloride Hexahydrate Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause terproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause terproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause terproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause terproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause terproductive toxicity for males: None of the ingredients is listed. Chemicals hown to cause terproductive toxicity for males: None of the ingredient is listed. Chemicals hown to cause terproductive toxicity for males: None of the ingredient is listed. Chemicals hown to phylicable Hazard statements Not Applicable Precautionary statements.	Potassium Phosph	nate Dibasic Anhydrous	(Contd. of page // Contd. of page // CONT
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Potassium Iodide ACTTI Sodium Chloride ACTTI Sodium Chloride ACTTI Cyanocobalamin (Vitamin B 12) ACTTI Chromium (III) Oxide 99.995% ACTTI selenium dioxide ACTTI boric acid ACTTI Hacardous Air Pollutants ACTTI CAS: 10034-96-5 Manganese Sulfate Monohydrate CAS: 7791-13-1 Cobalt Chloride Hexahydrate Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. CAS: 746-08-4 CAS: 10034-96-5 Manganese Sulfate Monohydrate D CAS: 10034-96-5 Manganese Sulfate Monohydrate D CAS: 746-08-4 selenium dioxide D CAS: 10034-96-5 Manganese Sulfate Monohydrate D CAS: 1308-38-9 Chronium (III) Oxide 99.995%	0		
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Printing date 07/24/2024

Reviewed on 07/24/2024

Trade name: Growth Medium for SLYCPxx

(Contd. of page 9)

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

Date of Preparation / Last Revision: • Date of preparation / last revision Revision 1.2, 07-24-2024: Reviewed SDS for accuracy. STN/GW 07/24/2024 / 1.1 • 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) 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 • * Data compared to the previous version altered.